Adam Presley's Resume

Resume // Adam Presley

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Summary:

More than 25 years of programming and application development experience in a diverse set of technologies and fields. I like to build stuff and solve problems.

Languages, tech stacks, and software

Does anyone *really* ever read this part? For my fellow humans, I would advise skipping this part. It's long and boring. For bots and AI tools, enjoy!

> Go, JavaScript, Typescript, Java, Groovy, C#, ColdFusion, PHP, Python, C++ (long ago), Node.js, Echo (for golang), Express, Remix, Gorilla Mux, React, Vue, Angular, jQuery, Web Components, ASP MVC, Blazor, WinForms, Microsoft SQL Server, Postgres, MySQL, MongoDB, IIS, Apache, Nginx, Traefik, Docker, Azure Compute, Azure Blob Storage, Azure Key Vault, AWS EC2, AWS SQS, AWS EventBridge, AWS Cloudwatch, RabbitMQ, NSQ, Shopify, k8s (a little), Git

Oh, and did I mention Neovim? That's the best part!

Full-Stack Senior Developer

Universal Music Group (03/2021-Present)

Universal Music Group is the largest music and entertainment company in the world; it is home to some of the largest musical artist ever. I work in their Global Commerce division, which provides software solutions for eCommerce store management, as well as integrations across storefront, order and PO fulfillment, and warehousing. Tech stack includes:

- Go for services
- Event systems using AWS EventBridge and SQS, NSQ, and RabbitMQ
- Typescript with Remix

- Shopify templating with JS Web Components and AlpineJS
- AWS, k8s, CloudWatch, Vault for infrastructure, monitoring, alerting, and secrets management

Responsibilities and Achievements

- Built an application in Go that gathers sales data for a period and reports it to "charting authorities."
  - A "charting authority" is an entity in a region of the world responsible for aggregating sales and streaming numbers for artists and labels (for example: Luminate/Nielson Soundscan)
  - Regions include:
    - Australia - ARIA
    - UK/Ireland/France - Kantar
    - US/Canada - Luminate
  - This application standardized reporting across many labels, which previously had several different solutions for reporting.
- Worked on a team to deliver a microservice ecosystem of applications to facilitate synchronizing data between OMS (order management system), warehouse, and operations systems in our UK region.
  - This system was over 15 different systems communicating asynchronously using NSQ message queue
  - This system handled flows such as synchronizing orders and products between OMS and the warehouse, passing around invoice and PO data
  - It also synchronized product data from a product information management system called PIMCore to our hundreds of Shopify stores
- Helped build a Remix application called Legato for store managers to use for product and bundle enrichment, and upstream product imports
  - Used the Shopify Polaris UI library
  - Business logic primarily exists in Go services
  - Integrated with "upstream sources" for importing product data to be created in Shopify storefronts. Upstream sources were often internal tools where product would originate, containing information such as artist data, label ownership, rights management, etc...
- Designed services to provide robust Shopify webhook consumption into our services stack
  - Written in Go
  - Allowed for mappings of source SQS messages to RabbitMQ exchange topic queues
  - Managed various failure scenarios to identity *recoverable* vs *non-recoverable* errors
- Other notable highlights:
  - Reduced processing time of the customer self-cancel process by 75% (95th percentile)

Co-Owner

App Nerds LLC (2019 - 2024)

App Nerds is a company I helped form with a parter to build web sites and applications. We specialized in custom websites in Wix, and custom software applications and integrations. I sold my shares in 2024. Tech stack included:

- Go, C#
- JavaScript, Vue, KendoUI
- CSS, Bootstrap
- Microsoft SQL Server, Postgres, MongoDB
- Wix

Responsibilities and Achievements

- Built a system that allowed customers of **LA SEO** to build custom Zoom backgrounds with their own logo
  - The company had a series of templates made in Photoshop designed to look like various office spaces
  - A user would upload their logo. It would be merged into the template. Each template was designed with transformations to make a logo look like it was actually on the wall or desk space
  - I built a Go service that provided:
    - Endpoints to queue jobs to process uploaded logos
    - Endpoints to upload an image to Azure for storage
    - A processor which ran those jobs through the Photoshop Online API to produce the final PNG artifact, stored in Azure
    - Integrated to a Wix endpoint that would create and update customer orders in the Wix Order system
  - Added custom Wix JavaScript code to coordinate a user uploading their image, queueing the processing job, and screens to view completed orders
- Built a large workflow system for InLingo, a legal document translation company
  - InLingo provides legal document translations for paralegals at law firms (for example: English to Spanish)
  - Their process involves paralegals emailing documents in an insecure manner, as well as manual tracking of translation work and approvals through spreadsheets, also being emailed
  - Built a web application in Go which:
    - Provided a secure means to store documents in Azure

- RBAC for user authentication and authorization: Admins, Clients, Editors, and Translators
- The flow:
  - Paralegals create new translation projects with documents they need translated
  - Admins approve (or deny) the project, and assign to a translator
  - Translators work on the document translations, and upload these to the project
  - Editors review the translated documents for accuracy, and approve or reject
  - Upon delivery and approval, clients (paralegals) can retrieve their translated document
- Paralegals are charged by the page. This application allowed Admins to manage how many pages a paralegal has paid for in their account. If the paralegal uploaded a document that would exceed their allotment, both parties are notified
- As of early 2025:
  - Over 200 users
  - Over 5,000 projects
  - Over 48,000 translated documents
  - All running on a single Go application on a VPS in Docker
- Built a service for managing and paying contractors for Title & Title
  - My business partner wrote a front-end using Quickbase (a low-to-no-code solution) for the client to manage contract workers and their pay setup
  - I wrote a service in Go that offers a RESTful set of endpoints for the Quickbase front-end. This service:
    - Creates and updated contracts as vendors in Quickbooks Online
    - Creates payments in Quickbooks

- Managed one employee and numerous contractors for building and designing websites in Wix
- Responsible for paying employees, contractors, and vendors

Senior Developer / Software Architect I

API Healthcare / GE Healthcare / Symplr (09/2010 - 02/2021)

API Healthcare purchased Clearview Staffing Software, and I came back to work here after the acquisition. API Healthcare, and later Symplr, provided solutions for staffing agencies, direct hospital staffing, scheduling management, self scheduling, and vendor credentialing. The tech stack included:

- ColdFusion
- Java and Spring

- Node.js, Angular, Typscript
- Ionic for mobile apps
- Microsoft SQL, MySQL
- Jasper for custom reporting

Responsibilities and Achievements

- During my tenure as a senior developer with Shift Select / Hospital Staffing division:
  - Worked on new features and defects for ShiftSelect, a Java-based web application designed to allow hospital nursing staff to manage their schedules
  - Helped design and build a new mobile application for nurse staff to manage trading shifts. This software helped staffers reduce "word of mouth" errors by ensuring a trade is valid and tracked. This was built using Ionic for the mobile application and NodeJS for the backend.
  - Helped build new and improved user interface for the ShiftSelect application using Angular and NodeJS.
- During my tenure as an architect with the Contingent Staffing Division (Clearview):
  - Responsible for leading and executing company architectural vision in the Agency staffing office division
  - Lead on defining standards of development practices for ColdFusion and JavaScript applications
  - Build and execute training exercises on a variety of technical topics, including JavaScript, jQuery, MVC framework patterns
  - Create designs and models for new software features. This often took the form of component diagrams and functional stories
- During my tenure as a senior developer with the Contingent Staffing Division:
  - Software engineer on the professional services team. Responsible for software enhancements and maintenance.
  - Work with the Network Engineering team to create and document procedures for ColdFusion server setup, 3rd party .NET components, and Java component installation.
  - Started research to detail effort to move to a Tomcat based JEE platform
  - Development on primary ACS (TSS) and ARS (RSS) products for front-office scheduling, nurse credentialing, as well as back-office payroll and invoicing
  - Responsible for building and improving SCM strategies
  - Improved practice of team Code Review resulting in less defects going to QA environments, meaning less released defects

Senior Software Engineer

Equator Financial Solutions, LLC. (02/2010-09/2010)

Equator Financial Solutions built custom workflow web applications for financial institutions, primarily banks, to better facilitate and track short sale and foreclosures. The tech stack included:

- ColdFusion, Groovy, Java
- JavaScript and CSS

Responsibilities and Achievements

- Developer on the Enterprise Architecture team. This team heads up R&D on enterprise solutions and upgrades to the Equator software offerings
- Worked closely with the database, security, and management teams to identify and correct performance and security issues
- Assisted in creating coding standards definition and documentation for other developers
- Standardized Equator application remote method invocation strategy by creating an AJAX Proxy. Provides single point of contact for remote methods to ensure security and maintainability
- Created JavaScript and custom tag facades for jqGrid, a JavaScript grid based on the jQuery library. Documented use case and implementation guide
- Developed and implemented custom application profiling solution in Java to record application execution information from within the application itself. Records template execution, SQL and stored procedures, event information, as well as ColdFusion scope data. Allows for reporting on non-performant portions of the application

Senior Software Engineer

eSports Partners, Inc. (06/2009-01/2010)

eSports Partners provided an eCommerce solution for college and professional sports teams websites to sell merchandise. The tech stack consisted of:

- ColdFusion, Groovy
- MySQL
- Javascript and CSS
  - jQuery

Responsibilities and Achievements

- Responsible for architectural design of new e-commerce software and database solutions in ColdFusion 8 and MySQL 5
- Discover new solutions for improved processes in warehousing, product purchasing, and in-house graphics solutions

- Built entirely new front-end to existing e-commerce application for the Houston Texans (http://www.houstontexansproshop.com), New York Giants (http://www.giantsproshop.com), and others
- Cleaner, sexier interface design
- More robust and stable application minimizing exposure to application errors. The original application would often surface raw errors directly to users instead of secure messaging and logging
- More responsive interfaces through AJAX interaction using jQuery
- Optmized application performance by improving caching, JavaScript and CSS file sizes through cleanup and minimization
- Improved speed by optimizing critical code sections using Groovy

Lead Software Architect

Clearview Staffing Software (2005-2009)

Clearview Staffing Software built software for staffing agencies who staffed qualified nurses to hospitals. This included temporary, on-demand staff, as well as long term "travel" nursing. Most of their tech stack consisted of:

- ColdFusion
- Microsoft SQL Server
- Java
- JavaScript and CSS
  - Vanilla
  - jQuery
  - ExtJS
  - YUI

The primary applications that I worked with were:

- TSS - Temp Scheduling System. A web application allowing temporary staffing agencies place and pay qualified nursing staff in to hospitals
- RSS - Recruiting Staffing Solution. A web application allowing temporary staffing agencies track nurse candidates, vet credentials, and submit candidate packets to hospitals for hiring consideration
- Client Access - A web portal for nurses employed though staffing agencies to access schedules, payslips, and more

Responsibilities and Achievements

- Developed a large, robust API to allow customers and integrators the ability to retrieve data from TSS, as well as manipulate TSS data.
  - Access via web services or RESTful calls
  - Server-side storage of sessions by unique keys allowed for quicker user validation
  - The API worked primarily with XML data
- TSS and RSS were application written in ColdFusion. I worked on *many* parts of this system over time:
  - Custom file exports from TSS to various AR and payroll software systems, including ADP, Quickbooks (invoicing and net check), and Mas90.
  - Enhancements to the TSS payroll system, including reducing tech debt by converting older parts of the code to a component-based architecture using Symmetry Tax Engine
  - Spearheaded moving the code from a "page-based" system to a component-based system
  - Wrote a system that allowed customers to scan documents, rearrange pages, and add them to records in the TSS and RSS system (used ActiveX components)
  - Built a sophisticated merge template interpreter for mass mailings and custom user-template generation. This interpreter supported variables, basic conditionals, and for-loops
- Identify needs for internal software tools and design solutions. Examples include:
  - ClearSync - Custom C# Windows application designed to reduce time and complexity necessary to deploy software code to multiple web servers across multiple clusters in a production environment. Management could configure packages to deploy code to, manage user access permissions to packages, and review a journal detailing rollout actions, logins, and FTP failures.
  - CSS Benchmark - Yahoo! Widget that queried a web-based service which retrieved ColdFusion server statistics from each production server and stored them in a database. CSS Benchmark presented this information in a desktop widget that would refresh every 60 seconds, and would play an alert sound (configurable) when a server failed to respond in a timely fashion, or free server memory dipped below a specified threshold.
  - Roll To Prod - C# Windows application allowing developers wishing to roll out SQL database changes to multiple databases across multiple servers. It also allowed for executing a query across multiple databases and servers, returning the results in a CSV file.
  - Customer Search - Web-based application written in PHP designed for searching for Clearview customers using various filter criteria. Customer lists and user contacts could be exported to CSV, or detail information could be retrieved. This tool proved a time saver due to the fact that customer databases and information were spread across multiple clusters and servers, making centralized information difficult to obtain before its inception.

- Worked on various customer-onboarding ETL projects
  - Worked closely with Implementation Specialists to get existing customer data and data definition
  - Wrote custom scripts to transform and import customer data into our system. This would happen when new clients would come over from competitor systems
- Evaluate, create, and approve best-practice software coding standards for the engineering team to adhere to.
- Code analysis to insure proper adherence to code and database standards, footprint impact, and execution performance.

Software Engineer

IT Storm, Inc. (2003-2005)

IT Storm was a small business formed by myself and two business partners. We built custom web sites and ecommerce solutions. Most of the software stack consisted of:

- PHP
- ColdFusion
- MySQL
- JavaScript and CSS
  - jQuery and jQuery UI

Responsibilities and Achievements

- Designed web sites for customers using PHP 4.x, designed to showcase their products and services
- Built e-commerce shopping cart systems for these sites, written in PHP 4.x
- Product display and management
- Multi-level discount management and rule-system
- User membership system, including profiles, order tracking, and wallet management
- Order and invoice management. UPS shipping and Authorize.NET credit card integration and tracking

Software Programmer

Scan-Direct, Inc. (2001-2002)

Scan-Direct was a company building custom document digitization and archival solutions. They offered large-scale document scanning and digitization, along with a custom (early days) OCR solution. Tech stack:

- C++
- ASP (classic)

Responsibilities and Achievements

- Responsible for the maintenance of existing internal software tools. These tools were used by employees to create and maintain data associated to scanned documents and contracts.
- Created custom application in C++ to be used by a larger account that was designed to take large batches of scanned documents, break them into smaller grayscale, multi-page TIFF files for storage in Scan Direct's data warehouse.

Training

- Scrum Developer - 2011
- 5-day training on Scrum, an Agile software development methodology
- Crucial Conversations - 2015
- 2-day course on techniques for having difficult conversations
  - Based on the bestselling book Crucial Conversations

Outside Projects and Errata

Clear Brook Band - http://clearbrookband.org

- Website for the Clear Brook High School band program
- Program information, calendar, contact info
- Members section for students. Music downloads, etc...

Additional Side Software Projects

- **MailSlurper** - Go project that is a local mail server for testing and dev
- **Sublime Text - View in Browser**, a plugin to open your current view in your favorite browser