

Albert "AJ" Snow

479-774-1828 | ajsnow2012@gmail.com | github.com/AlbertSnows | savyb.fly.dev

Technical Experience

Languages: JavaScript, PHP, Clojure, Java, C#, Rust, Python

Tools/Frameworks/Libraries: Node.js, Express, React, MongoDB, Docker, Spring Boot, Typescript, MySQL, GCP, Angular, Kubernetes, PostgreSQL

Skills: SDLC, Microservices, Software Architecture, Database Design, API/REST, ETL, OOP, CI/CD, Agile MVC, Functional Programming, Software Testing, DevOps, Polygot

Work Experience

Back-End Engineer

April 2022 - June 2023

Peerspace

- Independently developed new feature sets in several Clojure and JS (Node.js + Express) microservice web applications
- Led team initiatives to implement requested features for top clients
 - For example, calendar sync, resulting in 30% initial adoption and positive post-release feedback via CX team
- Designed endpoint communication between services by leveraging two primary communication protocols
 - Client calls were handled through REST APIs
 - Async calls leveraged GCP's event-driven Pub/Sub architecture
- Deployed and maintained versioned software services via CI/CD pipelines with Kubernetes and Docker
- Collaborated with teammates and stakeholders to translate and scope features into technical design stories
- Initiated new company procedures to refine and increase development productivity (e.g. tests, dev configs)
- Optimized, refined, and standardized database schemas to accommodate new feature development
- Cut business expenses by leveraging advanced problem-solving techniques to identify and debug software faults

Software Engineer 2

June 2019 - March 2022

Paycom

- Developed full-stack features for existing software services; extending backend APIs and writing user-facing scripts
 - Software utilized MVC style framework and OOP design architecture
 - Adhered to procedures and software regulations (ISO 9001:2015, SOX, PII)
 - Lead initiative to design a new core feature on our team that added ability to customize *all* fields on company position; widely adopted by clients after release
 - Expanded various module features by adding data customization, new workflows, and new api routes
 - Improved performance of modules via code optimization, resulting in runtime speeds improved by as much as 100x)
 - Create DB designs based on feature requests and employ various data modeling and software design techniques
 - Redesigned code from 1k lines down to 200 to improve design and readability, resulting in higher code quality and faster development time
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Education

Kansas State University (2019)

Bachelor of Science in Computer Science (3.7 GPA)

Projects

Personal Website (CLJS, Fulcro)	A personal website using ClojureScript and the Fulcro framework for personal use
Hotshot (CLJS)	Basic API to solve a fun math case; utilized Calva for Interactive Programming
Flower Website (JS/TS/CLJS)	Extra credit College assignment; wrote a website in three different JS languages
Spring Boot State Machine (Java)	Exploratory project to grok the Spring Boot framework. Uses H2 and REST API
Game Jam Unity Project (C#)	Small game built by me in a weekend featuring lightbulb-themed puzzle platforming
Modded Minesweeper (Python)	Minesweeper but I added a feature to subtract numbers based on flagging

Open Source Contributions

Calva	Collaborated with the lead dev to squash a bug preventing windows users from quick-booting the plugin
Fulcro	Added a feature and documentation to the Fulcro template to build and deploy a production-ready uberjar