

Albert "AJ" Snow

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

Technical Experience

Languages: Clojure, JavaScript, PHP, Java, C#, Rust, Python, C++
Tools/Frameworks/Libraries: Node.js, Express, MySQL, MongoDB, Docker, GCP, React, Kubernetes, Spring Boot, JUnit, H2, Git, PostgreSQL
Skills: SDLC, Software Architecture, Database Design, API/REST, CI/CD, MVC, Functional-Programming, Microservices, ETL, OOP, Testing, DevOps, Polygot, Agile

Work Experience

- Senior Software Engineer**
University of Chicago

Feb 2024 - Present

 - TODO
- Back-End Engineer 3**
Peerspace

April 2022 - June 2023

 - Led team initiative to implement a calendar sync feature resulting in 30% adoption and positive feedback via CX team
 - Independently developed new feature sets in several Clojure and JS (Node.js + Express) microservice web applications
 - Employed REST API and event-driven asynchronous communication protocols to streamline the development process
 - Eliminated downtime of versioned services via orchestration through CI/CD pipelines with Kubernetes and Docker
 - Collaborated with team members 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)
 - Supported new feature growth by seamlessly optimizing, refining, and standardizing schema designs in MongoDB
 - Cut business expenses by leveraging advanced problem-solving techniques to identify and debug software faults
- Software Engineer 2**
Paycom

June 2019 – March 2022

 - Led design of a new, widely adopted core feature on our team that allowed dynamic field customization
 - Shipped software features in an enterprise, MVCS style framework leveraging OOP style architecture in PHP
 - Adhered to software and procedural regulations (ISO 9001:2015, SOX, PII) while developing and storing sensitive data
 - Enhanced software services by extending backend APIs, writing user-facing scripts, and building workflows
 - Lowered client wait times by up to 100x by optimizing code, aggregating SQL queries in MySQL, and optimizing ORMs
 - Innovated data storage procedures by employing data modelling and design techniques to store DB schemas
 - Saved on development costs by abstracting code design, for example by refactoring code from 1000 to 200 lines
- SDET Internship**
Xpanxion

June 2018 – December 2018

 - Collaborated to develop a prototype client project in Java while undertaking a comprehensive Java course
 - Mentored under company coworker to automate C# testing frameworks
 - Engaged in mentor-led team sprint meetings and discussed project objectives, focus, and implementation strategies

Education

Kansas State University (2019) *Bachelor of Science in Computer Science (3.7 GPA)*

Projects

- | | |
|---|---|
| Personal Website (CLJS, Fulcro) | A website using ClojureScript and the Fulcro framework for personal use |
| Spring Boot State Machine (Java) | Exploratory projects in spring boot; I also implemented pattern matching |
| Order State Machine (C++) | Example CLI state machine to experiment with core ETL concepts in C++ |
| Hotshot (CLJS) | Basic API to solve a fun math case; utilized Calva for Interactive Programming. |
| Game Jam Unity Project (C#) | Small game built by me in a weekend featuring lightbulb-themed puzzle platforming |
| Thermal Modeling (Python) | College concurrency project; helped Graduate student parallelize modeling code |
| Utility Functions Library | Code designs that are transferable between languages; loosely inspired by lodash |

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 |