

# Albert "AJ" Snow

479-774-1828 | [ajsnow2012@gmail.com](mailto:ajsnow2012@gmail.com) | [github.com/AlbertSnows](https://github.com/AlbertSnows) | [savyb.fly.dev](http://savyb.fly.dev)

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## 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:** Microservices, Software Architecture, Database Design, API Design, Project Modeling, Algorithm Analysis, ETL, OOP, CI/CD, Agile MVC, Functional Programming, Software Testing, DevOps, Polygot

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## Work Experience

### Backend Engineer

2022 - 2023

*Peerspace*

- Operated in several Clojure and JS (Node.js + Express) microservices which utilized MongoDB storage and GCP hosting
- 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
- Facilitated communication between services via two primary communication protocols
  - \* Direct calls were handled through restful APIs
  - \* Async calls leveraged Google's Pub/Sub architecture; typically to persist data in time-insensitive case
- Interfaced regularly with Kubernetes and Docker systems to deploy software images for testing and software releases
- Collaborated with teammates to create and scope design documents for new and legacy features
- Enhanced and standardized development environments via various initiatives (e.g. documentation, tests, dev configs)
- Optimized, refined, and standardized MongoDB schemas to accommodate new feature development
- Debugged complex issues involving multiple over-the-wire processes across the system (e.g. when inconsistent data fired faulty events)

### Software Engineer 2.5

2019 - 2022

*Paycom*

- Perform full stack (JS/PHP) operations, including creating a backend API and writing user-facing scripts
  - Utilized MVC style framework, OOP style design, and software was regulated (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
  - Expand various module features by adding data customization, new workflows, and new api routes
  - Push performance improvements such as code optimization, SQL aggregation, and ORM optimization (e.g. 100x speeds)
  - Create DB designs based on feature requests and employ various data modeling and software design techniques
  - Redesign the code structure in various parts of my code domain (e.g. refactoring code from 1k lines to 200)
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## Education

**Kansas State University (2019)**

*Bachelor of Science in Computer Science (3.7 GPA)*

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## Projects

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

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## Open Source Contributions

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