

# Albert "AJ" Snow

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## Education

**Kansas State University (2019)**

*Bachelor of Science in Computer Science (3.8 GPA)*

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## Work Experience

### Backend Engineer

2022 - 2023

*Peerspace*

- Operated in several Clojure and JS (Node.js + Express) micro-services which utilized MongoDB storage and GCP hosting
- Enhanced features and 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 design documents for new and legacy features
- Enhanced and standardized development environments by various initiatives
  - \* Updated or added outdated documentation across various services
  - \* Added dev configs to streamline and improve feedback/REPL loops
  - \* Added testing frameworks (e.g. Jest, clojure.test) and core tests to untested repos
  - \* Standardized deployment methodologies for versioning
- 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
- Pushed performance improvements via code optimization, query 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)

### Assistant Instructor - Intro to Computer Science

2017 - 2018

*KSU*

- Provided mentoring to students, offering guidance on assignments, debugging, and best coding practices.
- Graded student projects, offering constructive feedback to enhance code quality and problem-solving skills.
- Held regular office hours to address students' questions, clarify concepts, and discuss software design.
- Shared insights to instructor about student progress, feedback, and contributed to curriculum improvement.

### Software Developer Internship

Fall 2018

*Xpansion*

- Completed comprehensive Java projects utilizing core MVC and OOP concepts such as polymorphism and inheritance
- Worked with company mentor on writing software automated testing frameworks
- Observed mentor's team sprint meeting and discussed project focus, goals, and implementation

### Instructor - Computer Science - K12

Summer 2018

*codeConnects*

- Offered guidance and counseling to students learning basic programming fundamentals in a summer program

### Apartment Custodian

Summer 2018

*KSU*

- Coordinated with a team members to prepare apartments for new residents quickly and thoroughly

**Engineering Custodian**  
KSU

Winter 2017 - 2018

- Coordinated with maintenance team to complete various aspects of building upkeep

**IT Technician**  
KSU

2015 - 2017

- Diagnosed and resolved computer-related issues, ensuring seamless functionality and optimal user experience
- Coordinated IT tasks with team members, streamlining operations and timely resolution of technical challenges
- Cultivated positive rapport with management and clients, achieved high satisfaction reports from clients

**Line Cook**

2015

*Cookies / Mema's*

- Delivered food service in a timely manner under various levels of rush
- Performed regular maintenance on workspace including cleaning, inventory, and prepping

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## Projects

<b>Personal Website</b> (CLJS, Fulcro)	A personal website using ClojureScript and the Fulcro framework for personal use
<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
<b>Mobile App, Android</b> (Kotlin)	Simple app made from scratch to experiment with the Kotlin language on Android
<b>Snake</b> (Rust)	Built snake in Rust for exposure and to experiment with Rust's graphical libraries

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## Contributions

Fulcro Template | Added the ability to compile and deploy a prod ready uberjar finished projects.

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## 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

**Skills:** Software Architecture, Database Design, API Design, Project Modeling, Algorithm Analysis, MVC, Functional-Programming, Microservices, ETL, OOP, Testing Design

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