# Albert "AI" Snow

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## Technical Experience

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

Tools/Frameworks/Libraries: Node.js, Express, MySQL, MongoDB, Docker, GCP, React, Kubernetes, Spring Boot, JUnit, H2, Git, PostgreSQL, fastapi, SQLalchemy

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

### **Work Experience**

#### **Senior Software Engineer**

Feb 2024 - Present

Center for Translational Data Science (CTDS) at University of Chicago

- Built API based on the principal architect's design doc; assumed code ownership with zero reported bugs to date
- Redesigned a complex metrics analysis tool for an AI research project lead directly by the CTDS's Director
- Automated manual ETL ingestion workflow, reducing content delivery turnaround from one week to one day

## **Back-End Engineer 3**

April 2022 - June 2023

Peerspace

- 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**

lune 2019 – March 2022

Paycom

- 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**

June 2018 – December 2018

**Xpanxion** 

- 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** (CL/S, Fulcro) Spring Boot State Machine (Java) **Order State Machine** (C++) **Hotshot** (CLJS)

Game Jam Unity Project (C#) **Thermal Modeling** (Python) **Utility Functions Library** 

A website using ClojureScript and the Fulcro framework for personal use Exploratory projects in spring boot; I also implemented pattern matching Example CLI state machine to experiment with core ETL concepts in C++ Basic API to solve a fun math case; utilized Calva for Interactive Programming. Small game built by me in a weekend featuring lightbulb-themed puzzle platforming

College concurrency project; helped Graduate student parallelize modeling code | Code designs that are transferable between languages; inspired by lodash and clojure

#### **Open Source Contributions**

Calva **Fulcro**  | Collaborated with the lead dev to squash a bug preventing windows users from quick-booting the plugin

| Added a feature and documentation to the Fulcro template to build and deploy a production-ready uberjar