

WORK EXPERIENCE

Backend Engineer

Peerspace

2022 - 2023

- Operated in several microservices, fleshing out existing architecture and facilitating communication between them
 - This involved implementing 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 cases
- Develop and test sprint tasks with feedback from QA on a bi-weekly cycle
- Interfaced regularly with Kubernetes and Docker systems to deploy software images for testing and software releases
- Collaborated with fellow engineers on my team to create comprehensive design documents for backend systems, typically for new features development
- Enhanced and standardized development environments by various initiatives
 - Updated outdated documentation across various services
 - Added local dev configs to tightened REPL loops
 - Implemented testing frameworks
 - Standardized deployment methodologies for versioning
- Optimized, refined, and standardized MongoDB schemas to accommodate new feature development
- Collaborate with product management on feature design, fracturing, and prioritization
- Deprecate, accommodate, replace, and redesign legacy components based on feature requirements

Software Developer (Rank 2.5)

Paycom

2019 - 2022

- Perform full stack operations, including creating a backend API and writing user-facing scripts
- Use MVC style framework; software is regulated (ISO 9001:2015, SOX, PII) and has various in-house and third party tools
- Expand various module features by adding data customization, new workflows, and new api routes
- Push performance improvements such as 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

TECHNICAL EXPERIENCE

Languages			Skills			Tools
C Langs	PHP	Kotlin	DB Design	Web Design	Concurrency	Mongo
Clojure/Script	Java	Rust	Small Team Collab	Mentoring	SA	Docker
Javascript			Project Modeling	Algorithm Analysis		Kubernetes

PROJECTS

Personal Website (CLJS, Fulcro)	A personal website using Clojurescript and the Fulcro framework for personal use
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
Android mobile app (Kotlin/Java)	Simple app made from scratch to experiment with the kotlin language on android
Snake (Rust)	Built snake in rust for exposure and to experiment with rust's graphical libraries
2D Roguelike (Unity, C#)	Featured tutorial in the unity framework to build a simple 2D roguelike in the engine

Project repos can be found here: <https://github.com/AlbertSnows>

EDUCATION

Kansas State University (2019)

Bachelor of Science in Computing and Information Science (GPA: 3.8)