

## Education

**San Jose State University - B.S. in Computer Science - GPA: 3.98/4.00**

**August 2021 – December 2024**

- **Coursework:** Computer Networks, Computer Systems & Architecture, Operating Systems, Relational Databases, Data Structures and Algorithms, Object-Oriented Design, Information Security, Machine Learning, Statistics, NoSQL Databases

## Experience

**Blackhawk Network - Fullstack Software Engineer Intern**

**June 2024 – October 2024**

- Designed secure and concise API for partner onboarding and management of credentials using OpenAPI specification
- Implemented 21 API endpoints using Spring Boot, compiled using Maven, fully tested using JUnit and Mockito
- Leveraged Keycloak for authentication using JWT tokens, and as a data structure for credential storage
- Worked with Jenkins to build and deploy Spring artifacts to AWS containers
- Developed responsive NextJS frontend which consumes the API to allow partnered companies to manage their organization credentials and administrators using React and Typescript

## Projects

**TastyTrade - Food Sharing Android App - Firebase, React Native, Typescript**

[Github](#)

- Led a four person team through the development of a food sharing android application over the period of three 2-week sprints
- Organized code through feature branches on Github, requiring approval from other team members before merging code to master
- Designed app from the ground up including NoSQL schema, Lucidchart wireframe, and choosing tech stack utilizing Expo and React Native with Typescript
- Implemented Google OAuth using Firebase and real-time chatting with other users through Firestore

**HonorDB - MySQL Command-Line Social Network Project - Java, SQL, JDBC**

[Github](#)

- Designed relational database schema for a social network where users can send gifts and messages to each other
- Interfaced with MySQL Database using JDBC Connector and executed SQL commands using prepared statements
- Defined tables, triggers, foreign keys, and procedures in order to implement database logic
- Command line allows viewing, adding, removing, and calculating specific connections and relations using SQL

**MongoDB Sharded Cluster Shell Scripts - Distributed Database Setup Project - Bash, MongoDB**

[Github](#)

- Wrote a suite of shell scripts to aid in the installation and deployment of MongoDB across 5 AWS EC2 containers
- Created a Sharded Cluster with a replica set of three instances per shard for data redundancy
- Tested the cluster using queries involving Range, Element Match, Aggregation, Update, and Delete

**Student Signup gRPC - Server Development Project - Java, gRPC, Maven, XML, Protobufs**

[Github](#)

- Implemented client and server allowing students to sign up for classes using Google Remote Procedure Calls (gRPC)
- Defined RPC functions through Protocol Buffers, configured build process using XML, compiled project using Maven
- Utilized locks, AtomicInteger, and ConcurrentHashMap in order to serve multiple student registration requests simultaneously

## Technical Skills

- **Languages/Frameworks:** Java, Spring Framework, SQL, C/C++, Python, JavaScript/Typescript, HTML/CSS, CQL
- **Technical Skills:** Docker, Virtual Machines, MySQL, SQLite, MongoDB, Neo4J, Cassandra, Version Control (Git, Bitbucket), JSON and CSV Manipulation, Linux, Bash, Networking (TCP/UDP), Unit Testing (JUnit), gRPC, Optimization, Microservices (RESTful), Build Automation Tools (Maven, Gradle)
- **Misc Skills:** Microsoft Office Suite, Word, Excel, Powerpoint, Agile Development, Arabic, Leadership, Communication