

# John Hoang

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## EDUCATION

**B.S. Software Engineering, May 2022**

San Jose State University, San Jose, CA

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## SKILLS AND TECHNOLOGIES

**Languages:** (*Proficient*): Java, Python (*Familiar*): HTML/CSS, C, SQL

**Frameworks:** (*Proficient*): Flask, SQLAlchemy (*Familiar*): Spring Boot, JavaFX, pandas, Socket.IO

**OS:** Windows, Linux

**Development:** SDLC, Agile methodology

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## PROJECTS

### eyeCU Security System, SJSU, Spring 2022

- Lead a team of 4 using Python, React, Raspberry Pi, and a Solenoid Lock to build a security system backed with a web application that streamed live footage with facial recognition overlay, unique account management, and authorized lock control.
- Developed backend using Flask APIs and SQLAlchemy to communicate with front-end and hardware endpoints.
- Performed black-box testing with 20 applicants to verify user registration and facial processing accuracy to fulfill product requirements.
- Organized weekly sprints to review and debug code which led to a 30% speedup in image verifications.
- Resolved system crashes by implementing signals to start or stop a thread to prevent invalid memory access and leaks.

### Fast Pages Library Management, SJSU, Fall 2021

- Deployed an enterprise-focused web application using AWS elastic beanstalk, Java, Spring Boot, Bootstrap, and MySQL to create an online bookstore targeted towards bookstore admins and their customers.
- Designed database schema and relationships between tables with Java Entities to create tables and handle data validations directly through Java.
- Established business layer to database layer interaction by using JPA repository to handle queries, reducing repetitive SQL code

### Self Service Bank, SJSU, Spring 2021

- Built an ATM application with Java and MySQL that handles unique account registration and data queries such as withdrawals, deposits, and money transfers.
- Automated testing by incorporating a SQL script to create and populate over 50 accounts to verify data queries.

### Archer, SJSU, Spring 2020

- Led a team of 4 developing a social media website using Python, Flask, and SQLAlchemy targeted towards college students.
- Experience with SDLC process through weekly sprints, backlogs, and deliverables to gain insight on project development.
- Familiarized with the concept of ORM by using SQLAlchemy to perform data manipulations and queries through python objects.

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## WORK EXPERIENCE

### Cisco Project Specialist Assistant, August 2021 - Present

- Overseeing hardware inventory for Cisco's Transceiver Module Group.
- Assisting in product development by processing over 100 modules a day for testing and business operations.
- Responsible for tracking hardware by logging module activity in Excel to assist project managers and engineers.
- Created a location grid system in the storage room to increase inventory management productivity by 70%.