

Johnathon Lu

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Education

San Jose State University, College of Engineering

B.S., Computer Engineering, Minor in Computer Science

Expected Spring 2025

GPA: 3.7

Honors: Dean's List x3 (top 10%)

Relevant Coursework: Data Structures and Algorithms, Software Engineering I, Digital Design II, Computer Networking, Advanced Algorithm Design, Microprocessor Design I, Operating Systems, Project Management, Compiler Design, Computer Architecture and Design, Machine Learning, Information Security, Real Time Embedded Design

Experience

Headstarter - Remote

Aug 2021 - Jun 2023

Software Engineering Fellow

- Built **5+ AI apps** and **APIs** using **Next.JS, OpenAI, Pinecone, StripeAPI**
- Developed projects from design to deployment, leading 4+ engineering fellows using **MVC design patterns**
- Coached by **Google, Amazon, Bloomberg, and Instagram** engineers on **Agile, CI/CD, and Git**

Spartan Racing - San Jose

Aug 2021 - Jun 2023

ICU Project Lead

- Led a team of 6 in designing and programming the driver's heads-up display employing CAN bus messages
- Applied **C/C++** to create the GUI and also receive messages from the car's VCU
- Boosted driver efficiency by **14%** and safety by minimizing unnecessary information displayed and communicated
- Placed **fourth** in the Formula Society of Automotive Engineers (FSAE) endurance race

San Jose State University - Student Union Bowling Alley - San Jose

Aug 2021 - Present

Shift Supervisor

- Supervised a team of 3 members per shift to sustain efficient customer service and give mentorship
- Collaborated with **20+ diverse student organizations** and Student Union Upper Management to boost customer attendance by **20%** over two months

Projects

LifeTone - Senior Design Project

- Led a four-person group creating a mobile skincare app that builds a lifestyle around the information given to us
- Designed a mockup of the UI using **Canva** and utilized **React Native** and **Javascript** for front-end development
- Leveraged the **ChatGPT API** to generate humanized text given our analysis as input

ChatMail Website Application

- Managed and led a dynamic team of four in the creation of an email client featuring an added checklist functionality
- Leveraged **Python Flask, HTML, and Bootstrap CSS** for front-end development
- Implemented a streamlined **SQLAlchemy** database for efficient user data management
- Integrated **GitHub RESTful API** functionality for seamless connection to users' GitHub accounts

Project Portfolio Website

- Designed a custom website to display any projects that are in progress or have been completed
- Utilized **Javascript** and **Bootstrap CSS** for more fluid user interaction

Skills & Other

Technical Skills: Java, Python, C/C++, Javascript, SQL, x86 and MIPS Assembly, React, Mobile Development

Languages: English (Native), Cantonese (Conversational), Spanish (Novice)

Volunteering: Volunteered at a non-profit student-run maker space that helped fund COVID-19 relief efforts during the height of the pandemic by delivering over 70,000 face shields for both hospitals and marginalized communities (2021)

Activities: Project Lead Spartan Racing SRE, Assistant Coach & Varsity Member of San Jose Dragonboat