

# Johnathon Lu

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## Skills & Activities

**Programming Languages:** C/C++, Java, Python, SQL, HTML/CSS, Javascript, React Native, Typescript

**Technical Skills:** Cybersecurity, Mobile Development, ML/AI, Database Management, Data Analytics, Git/Github, Figma, Linux, Agile, Oscilloscope, Multimeter, Linux OS

**Languages:** English (Native), Chinese (Conversational), Spanish (Novice)

**Leadership:** Project Lead Spartan Racing SRE, Coach & Varsity Member of San Jose Dragonboat

## Projects

**LifeTone - Senior Design Project** – *React Native, Figma, Supabase, Gemini API, Face Analyze API*

- Led a four-person group creating an AI skincare app
- Designed UI mockups using **Figma** and employed **React Native** and **Javascript** for front-end development
- Utilized the **Face Analyze API** to help detect key facial features and skin status such as acne, dark circles, & etc.
- Leveraged **Gemini's API** to generate skincare recommendations for its users
- Developed a **SQL** database schema and implemented it with **Supabase**
- Built a **custom Python machine-learning model** for personalized product recommendations

**ChatMail Website Application** – *Python, HTML/CSS, REST API*

- Led a team of four in the creation of an email client using **Agile** Software Development Principles
- Leveraged **Python**, **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** – *Javascript, HTML/CSS*

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

## Experience

**Headstarter AI** - Remote

*Aug 2024 - Jun 2024*

*Software Engineering Fellow*

- Developed a subscribable AI Flashcard web application using **OpenAI's API**, **Clerk**, and **Firebase** for the database
- Coached by **Google**, **Amazon**, **Bloomberg**, and **Instagram** engineers on **Agile**, **CI/CD**, and **Git**

**Spartan Racing** - San Jose

*Aug 2021 - Jun 2023*

*Dashboard 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 - Aug 2024*

*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

## Education

**San Jose State University, College of Engineering**

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

**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, Machine Learning, Real Time Embedded Design, Database Systems 1