# Allen Tran

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## EDUCATION

**BS** - Computer Science, University of Southern California                              2022 - 5/2025

**GPA:** 3.91

**Relevant Coursework:** CSCI 102 and 103(Intro to C++), Calculus III, CS50p and CS50x @ Harvard (Python and Coding Bootcamps), CSCI 170(Discrete Math), ITP-216(Applied Python)

## TECHNICAL SKILLS

**Languages:** Python • C++ • HTML/CSS • React.JS • SQL • Git • Full-Stack Web Development • Debugging • PANDAS • TypeScript • AWS

## WORK EXPERIENCE

### Software Engineer

*LULULALA– Los Angeles, California*                                         February 2023 – Present
- Implementing newer technology to revolutionize the way customers pay for hotels by the hour.
- Develop a robust backend that stores info, parses the user info, and displays it back to the frontend.
- Utilize **SQL** databases to **query, store, and modif**y data that is stored from new and old users.

### Web Manager

*Office of Research and Innovation @ USC – Los Angeles, California*            Aug 2022 – Present
- Administered website operations by modifying text, files, and links to ensure optimal content presentation.
- Spearheaded workshops for USC researchers, imparting skills in securing funding from various sources.
- Oversaw internal USC-funded grants and awards programs with a budget of over $9,000,000 annually.

### Apprentice

*Dr. Dang's Dental – San Jose, California*                                    Jun 2022 – Aug 2022
- Acclimated to the dental office alongside fellow dentists, specialists, and hygienists.
- Helped perform procedures by allocating various dental instruments in real-time.
- Captured and analyzed different cavity locations of teeth through X-Ray photos.

## PERSONAL PROJECTS

**WebLift.ai** - *Data-based User Extension for Personalized Website Experience*            Github Repo
- Allows business owners to fully customize their website based on the users' cookies and data.
- Built on the **NoSQL Firebase and Firestore** databases to store business information(i.e images and texts).
- Integrated APIs such as **OpenAI's chatGPT** for rewriting texts and **Google Analytics** for Google Sign-In.
- Built a front-end client website with **HTML/CSS and Javascript. Backend with ExpressJS, Firebase, and Axios.**
- **Placed 1st overall best beginner project and top 3 in business economy category at the HackSC Hackathon.**

**SnapCode** - *AI Code Scanner to Readable Text (full-stack)*                              GitHub Repo
- Integrated ajax to convert images captured from the camera(**CSS, Javascript, HTML**) to compiler.
- Designed the UI allowing users to correctly upload/capture images and edit the code from the compiler.
- Utilized **Google Cloud Vision AI** for the back-end(**javascript**) to detect text from an image and output it into 3 languages: **C++, C, and Javascript**.
- Deployed using **AWS Elastic Beanstalk, AWS CodePipeline, AWS DNS Validation, and SSL Certification.**
- **Won 1st place at USC's ACM trojan hackathon with best undergraduate hack title.**

**SC Formula Electric Car**                                                               GitHub Repo
- Application of **C++** to power an EV-powered car's BMS, charger, and motor system.
- Testing code through Arduino and IDEs to properly run **CAN Bus** and communicate with other parts.
- Connected **CAN high** and **CAN low** wires to the display for verifying voltage from different car parts.

**Biology Research Website** - *Informational Website on Rubella*                          GitHub Repo
- Built a website storing data on Togaviridae, a family of viruses, and vaccines on treatment.
- Implemented external links to outside resources such as Google Slides and Youtube.
- Frontend heavy and mostly relied on **HTML** and **CSS** to develop a stylish website with clear content.