Allen Tran

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EDUCATION

University of Southern California — Los Angeles, CA
Bachelor of Science in Computer Science and Business, Minor in AI Applications — *Aug. 2022 – May 2025*
Relevant Coursework: Calculus 3 ● CS50p and CS50x: Python and Coding Bootcamps ● Discrete Math ● Applied Python ● Data Structures and Object Oriented Design ● Linear Algebra ● CodePath: Intermediate Technical Interview **GPA: 3.71**

EXPERIENCE

AI/ML Developer Intern — May 2023 – Present
RadicalX *- EdTech Startup* — *New York, New York*
- Developing an **AI Dev Manager** leveraging technologies such as **OpenAI and TensorFlow** to streamline development processes, improve efficiency, and enhance collaboration among the team.
- Utilizing **Botpress, API parsing, and prompt engineering** techniques to create chatbots with advanced natural language understanding generation capabilities, improving user interactions and reducing response time.
- Leading a team of six in implementing **Scrum** methodologies and **agile development** practices, fostering collaboration, organizing daily stand-up meetings, conducting sprint planning, and monitoring progress.

Full-stack Developer Intern — May 2023 – Present
Legacy *- Secure Cloud Storage Startup* — *Los Angeles, California*
- Integrating **Firebase Cloud Firestore** to facilitate efficient data storage and retrieval, optimizing the performance and scale the Legacy platform and ensuring a seamless user experience.
- Developing custom **APIs** and server-side logic in **JavaScript** to handle data manipulation, authentication, and authorization within the Legacy backend, ensuring integration between frontend and backend components.
- Conducting thorough debugging of the **JavaScript** backend code, utilizing tools such as **Jest** and **Firebase Emulator Suite** to ensure the stability and reliability of the Legacy web application for **50** concurrent users.

Software Engineer — February 2023 – Present
SplitStay *- Hospitality Startup* — *Los Angeles, California*
- Implementing technology to revolutionize hotel payments by enabling customers to pay by the hour.
- Developed a responsive search landing page utilizing **React** components, **CSS** layout techniques, and **JavaScript** functions for adaptable and user-friendly interface.
- Utilizing **MongoDB** database to query, store, and modify data for new and existing users from **Amadeus API.**

Web Manager — Jan 2023 – May 2023
USC Office of Research and Innovation — *Los Angeles, California*
- Administered website operations by modifying content to ensure optimal content presentation.
- Spearheaded workshops for USC researchers, imparting skills in securing funding.
- Oversaw internal USC-funded grants and awards programs with a budget of over **$9,000,000** annually.

PROJECTS

Premier League ML Web App | *Python, PostgreSQL, NumPy, Matplotlib, Git, Pandas* — May 2023
- Built interactive **Python-Flask** web app allowing users to search and manipulate the Premier League soccer games listing data using **Numpy, Pandas, and Matplotlib.**
- Applied **machine learning** techniques to predict match outcomes and provide data-driven insights for soccer enthusiasts through **scikit-learn.**
- Leveraged **PostgreSQL** to create a robust database that stores over **1,000** data points, including match details, teams, scores, and dates. Extracted insights and generated meaningful statistical data on a box plot.

WebLift.ai | *Javascript, Firebase, ChatGPT, Google Analytics, Git* — Jan 2023 – Feb 2023
- Developed a data-based user extension for a more personalized website experience similar to Google Ads.
- 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 manipulating texts and **Google Analytics** for Google Sign-In.
- **Placed 1st as best beginner project and top 3 in business economy category at the HackSC Hackathon.**

SnapCode | *Javascript, HTML/CSS, Google Cloud Vision, AWS, Git* — Jan 2023 – Feb 2023
- Engineered a **PhotoMath**-inspired code recognition tool, converting code images and text in **C++, C, and Javascript** to readable text.
- **Utilized Google Cloud Vision AI** for back-end(**javascript**) to detect text from an image and output in english.
- 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.**

TECHNICAL SKILLS

Languages: Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, Java, PHP, TypeScript
Frameworks: React, Django, Flask, WordPress, Express.JS
Developer Tools: Git, Google Cloud Platform, VS Code, Visual Studio, PyCharm, AWS
Libraries: ChatGPT, TensorFlow, Pandas, NumPy, Matplotlib, Firebase, Machine Learning