

Allen Tran

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Education

University of Southern California, Viterbi School of Engineering

Bachelor of Science in Computer Science, minor in AI Applications

Los Angeles, CA

Aug 2022 – Jun 2026

University of Southern California, Marshall School of Business

Bachelor of Science in Business Administration

Los Angeles, CA

Aug 2022 – Jun 2026

Certificates and Awards: Codepath Intermediate Technical Interview, Dean's List: Fall 2022, Spring 2023

GPA: 3.5

Relevant Coursework: Introduction to Programming • Fundamentals of Computation • Calculus 3 • CS50p and CS50x: Python and Coding Bootcamps • Discrete Math in Computer Science • Applied Python • Data Structures and Object Oriented Design • Linear Algebra • Principles of Software Development

Experience

ServiceNow

Incoming Software Engineer Intern

May 2024 – August 2024

Santa Clara, California

USC Viterbi's Interaction Lab

Research Assistant

Aug 2023 – Present

Los Angeles, California

- Fine-tuning, data modeling, and model labeling with MUFaSAA datasets using **Python** and its libraries.
- Designing neural network models with **TensorFlow** and **Keras**, specifically tailored for robot task learning.
- Analyzing a dataset of over **1,200** entries, identifying key trends and revamping data analysis algorithms, reducing computational time by **87%**.

SplitStay

Software Engineer Intern

Feb 2023 – Sep 2023

Los Angeles, California

- Implementing technology to revolutionize hotel payments by enabling customers to pay by hour.
- Applying **MongoDB** database to query, store, and modify data for new and existing users from **Amadeus API**.
- Developing a responsive search landing page employing **React** components, **CSS** layout techniques, and **JavaScript** functions for adaptable and user-friendly interface. Sponsors include **InterContinental** and **Ayres Hotels**.

Scale AI

AI Model Trainer

Jun 2023 – Aug 2023

San Francisco, California

- Leveraged advanced knowledge of **data structures and algorithms** to design efficient code solutions for diverse coding projects and scaling the AI model.
- Tackled **LeetCode's** Medium and Hard problems within strict time frames done in **Python**.
- Achieved consistent accuracy rates of **85%** in AI model results by modifying and comparing **run times and space complexities** of coding challenges.

Keepsake

Software Engineer Intern

May 2023 – July 2023

Los Angeles, California

- Integrated **Firebase Cloud Firestore** to facilitate efficient data storage and retrieval, enhancing performance and scale the Legacy platform and ensuring a seamless user experience.
- Developed 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.
- Conducted thorough debugging of the **JavaScript** backend code, leveraging tools such as **Jest** and **Firebase Emulator Suite** to ensure stability and reliability of web application for **50** concurrent users.

Projects

BizLang | *Javascript, React.JS, OpenAI, Flask, Heroku, RESTful APIs, Git*

bizlang.co | Aug 2023 – Present

- Building an app like **Duolingo** that develops one's business language through interacting with a chatbot assistant.
- Writing code in **Javascript** with **React** library for frontend and **Python** with **Flask** framework for backend.
- Iterating BizLang in **Buildspace** with over **100** users expressing interest around the world. Deployed with **Heroku**.

Premier League ML Web App | *Python, PostgreSQL, NumPy, Matplotlib, Git, Pandas*

Jan 2023 - 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 for soccer enthusiasts through **scikit-learn**.
- Leveraged **PostgreSQL** to create a robust database storing over **1,000** data points on each team match.

WebLift.ai | *Javascript, Firebase, ChatGPT, Google Analytics, Git*

bit.ly/WebLift | Jan 2023 – Feb 2023

- Developed an extension for a personalized web experience using **NoSQL Firebase and Firestore**.
- Placed **1st** as best beginner project in business economy category at the HackSC Hackathon.

SnapCode | *Javascript, HTML/CSS, Google Cloud Vision, AWS, Git*

bit.ly/USCsnapcode | Jan 2023 – Feb 2023

- Engineered a code recognition tool, converting code images and text in **C++**, **C**, and **Javascript** to English.
- 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, Ruby, R

Frameworks: React, Django, Flask, WordPress, Express.JS, PyTorch, iOS

Developer Tools: Git, Google Cloud Platform, VS Code, Visual Studio, PyCharm, AWS, RESTful APIs

Libraries: TensorFlow, Pandas, NumPy, Matplotlib, Firebase, Machine Learning, Hugging Face, Transformers

Core Competencies: Data Structures and Algorithms, Object-Oriented Design, Version Control, CI/CD, Cloud Computing