

# Allen Tran

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## Education

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**University of Southern California, Viterbi School of Engineering** Los Angeles, CA  
*Bachelor of Science in Computer Science/Business Administration, minor in AI Applications* Aug. 2022 – May 2026  
**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

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**USC Viterbi's Interaction Lab** Aug 2023 – Present  
*Research Assistant* Los Angeles, California

- Fine-tuning robots with datasets and labeling using **Pytorch and Tensorflow**.
- Developing highly efficient **neural network** training methods for robot task learning.

**Scale AI** June 2023 – Present  
*AI Model Trainer* San Francisco, California

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

**RadicalX** May 2023 – Aug 2023  
*AI/ML Developer Intern* 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.
- Spearheading a team of **6** in implementing **Scrum** methodologies and **agile development** practices, fostering collaboration, organizing daily stand-up meetings, conducting sprint planning, and monitoring progress.

**Keepsake** May 2023 – July 2023  
*Full-stack Developer Intern* 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.

**SplitStay** Feb 2023 – Present  
*Software Engineer* Los Angeles, California

- Implementing technology to revolutionize hotel payments by enabling customers to pay by the hour.
- Utilizing **MongoDB** database to query, store, and modify data for new and existing users from **Amadeus API**.
- Developed a responsive search landing page utilizing **React** components, **CSS** layout techniques, and **JavaScript** functions for adaptable and user-friendly interface.

## Projects

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**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 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 on each team match.

**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.
- **Placed 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 english utilizing Google Cloud Vision AI.
- **Won 1st place at USC's ACM trojan hackathon with best undergraduate hack title.**

## Technical Skills

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**Languages:** Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, Java, PHP, TypeScript

**Frameworks:** React, Django, Flask, WordPress, ExpressJS, PyTorch

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

**Libraries:** Llama2, ChatGPT, TensorFlow, Pandas, NumPy, Matplotlib, Firebase, Machine Learning, Hugging Face, Transformers