Allen Sun

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EDUCATION

Texas A&M University, College Station, Texas

August 2022 - May 2026

Bachelor of Science in Computer Science, Minor in Business and Mathematics

GPA: 4.0; Engineering Honors Program

President's Endowed Scholar, National Merit Recognition Award

PROFESSIONAL EXPERIENCE

Software Engineer Intern, Apple

May 2024 - August 2024

- Designed and prototyped a Python-based microservice that guardrails AI and ML fraud screening decisions from unintended side
 effects, migrated from an existing embedded solution to promote portability and scalability.
- Deployed service to an internal cloud platform, integrating into **Clojure** workflow and supporting 300 transactions per minute with processing volume of 5000 events per day.
- Utilized object-oriented design to create a flexible architecture allowing microservice adoption by teams with domain-specific use case requirements, implementing feedback from other software engineers in code review while balancing ML engineering requests.
- Designed unit and integration tests to ensure quality code in internal **GitHub** repositories, used **CI** tools to automate testing during software builds and minimize error-prone processes, and wrote development-to-production **CI/CD** pipelines that deploy service.
- Delivered technical and business presentations to software and machine learning engineers, program managers, and business leaders.

Peer Teacher, Texas A&M College of Engineering

August 2023 - Present

- Assist 60+ students for a **Python** class both in-class and through regular office hours, fostering a supportive learning environment.
- Grade assignments while maintaining consistency and providing detailed feedback in a timely manner.

Game Application Development Intern, Berkeley Pharma Tech (Remote)

May 2023 - August 2023

- Implemented features and improved iOS Deep Sea shooter game using Unity, C#, and Apple Developer Program.
- Overhauled and debugged Git repository and version control system by configuring Large File Storage.

ACTIVITIES

Aggie Data Science Club

Projects Officer

April 2023 - Present

- Organized 14 semester-long data science projects with 390+ total sign-ups since Fall 2023, increasing participation by 90%.
- Hold bi-weekly support syncs with 16+ project managers, emphasizing version control practices and Agile-based development.
 Project Manager, Kaggle Walkthrough
 September 2023 December 2023

Co-led Kaggle capstone competition project to over 40 participants through weekly meetings, mentoring and evaluating teams.

 Co-led 5 Python workshops covering data preprocessing, visualizations, machine learning algorithms, and model optimization and evaluation using Numpy, Pandas, Matplotlib, Seaborn, Scikit-learn, and TensorFlow.

Aggie Coding Club

Project Manager, AggieFunds

September 2023 - November 2023

- Led team of 6 in developing a crowdfunding website oriented toward Texas A&M students, organizations, and alumni.
- Developed full-stack website utilizing React and Next.js, with Axios and Django for API handling and PostgreSQL for data storage.
- Held weekly stand-up meetings and mentor members while ensuring consistent progress through Agile framework and Jira board.

PROJECTS

ProfMatch

September 2023 - October 2023

- Collaborated in a four-person team to create a full-stack website, using Pandas and Python to design an algorithm providing
 personalized professor recommendations, scores, rankings, and visualizations from a Kaggle dataset of Texas A&M course evaluations.
- Engineered the front end using Next.js and tailwind CSS, while handling API calls with Axios library and Flask.
- Achieved 2nd out of 54 teams at the 2023 HowdyHack hackathon, earning recognition in the Texas A&M Engineering Ingenium blog.
- Deployed service to Vercel and Render in October 2023, earning 3000+ page hits from 500+ visitors since.

Engineering Honors Project

September 2022 - April 2023

- Collaborated on application using KNN, SVM, and Random Forest to predict Texas A&M Engineering Honors activity participation.
- Created dashboard with **Streamlit** and **Python,** dynamically visualizing event attendance and turnout for 6 semesters and 40+ events.
- Established **Sqlite3** database for storage and developed dashboard interface for streamlined database management.

SKILLS

Languages: Python, Java, C++, C#, HTML, CSS, SQL, Lua, Javascript, Typescript, Clojure

Technologies: React.js, Next.js, Node.js, Express.js, MongoDB, Flask, Django, TensorFlow, PyTorch, Scikit-learn, Git

Coursework: Data Structures, Computer Organization, Discrete Mathematics, Linear Algebra, Multivariable Calculus, Algorithms, Machine Learning, Data Science, Database Systems