

Allen Sun

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EDUCATION

Texas A&M University, College Station, Texas
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

August 2022 - May 2026

PROFESSIONAL EXPERIENCE

Peer Teacher, Texas A&M College of Engineering

August 2023 - Present

- Serve as teaching assistant for a **Python** engineering class with 60+ students.
- Assist students 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

- Coordinate semester-long data science projects with one other Projects Officer for an organization with 600+ members.
- Organized, approved, and promoted 8 projects for Fall 2023, resulting in 210+ member sign ups.
- Support and guide project managers through bi-weekly meetings, emphasizing version control practices and Agile-based development.

Project Manager, Kaggle Walkthrough

September 2023 - December 2023

- Co-led project introducing data science and machine learning with Kaggle datasets to over 40 participants through weekly meetings.
- 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**.
- Co-organized a multi-week Kaggle dataset competition among members, mentoring teams and evaluating models and visualizations.

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.
- Hold 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, leveraging a Kaggle dataset of Texas A&M AEFIS course evaluations to provide personalized professor recommendations based on user preferences.
- Engineered the front end using **Next.js** and tailwind **CSS**, while handling API calls with **Axios** library and **Flask**.
- Devised and implemented a **Python** algorithm with **Pandas** to generate professor match scores, rankings, and Recharts visualizations.
- 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 2000+ page hits from 400+ visitors since.

BudgetGuard

February 2023 - April 2023

- Spearheaded backend web scraping for a budget-friendly product display website, leveraging **Python** and **Selenium**.

Stock Market Blog

December 2022 - Present

- Develop a personal website with **Next.js** React framework with a **Node/Express.js** backend.
- Integrate screeners, trading bot, and data analytics visualizations using **Python**, **Flask**, and **TensorFlow**.
- Leverage **MySQL** database to manage storage of posts and financial data.

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**, configuring widgets to dynamically visualize event attendance and turnout data.
- 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

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

Coursework: Data Structures, Computer Organization, Discrete Mathematics, Linear Algebra, Multivariable Calculus