Kyle He

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EDUCATION

University of Southern California

B.S. in Computer Science — Major GPA: 3.9

Expected Graduation: May 2025

Honors: Presidential Half-Tuition 4-Year Scholarship, Dean's List

Relevant Coursework: Data Structures and Object Oriented Design, Introduction to Programming C++, Discrete Math, Linear Algebra, Calculus II

EXPERIENCE

Software Engineer / Cohort Member - USC Makers

September 2022 - Present

- Building robotic laser pointer that automatically locates and points at constellations in the night sky with 6 other students; currently in progress.
- Developed a front-end website in React.js; programmed a back-end in Python and MQTT.

Treasurer / Hardware Designer - FIRST Robotics Team 846 Sep

September 2018 - May 2021

• Built the electrical subsystem on the 2018 year robot; designed the robot intake on the 2019 year robot using Autodesk Inventor; raised \$10,000 in funding via grants.

PROJECTS

P2HB Discord Bot

Python, Discord.py, MongoDB

Link to source code

- Built a chat-based game on the messaging platform Discord, connecting 12,000 users online across 6,600 servers.
- Consisted of multiplayer tournaments, Pokémon trivia games, user role management and more.
- Written in Python on the Discord.py framework; managed the user database on MongoDB; deployed the application with PM2.

Unus Motus Game

C#, Unity

Link to Demo / Link to source code

• Created a turn-based puzzle game with C# on the Unity game engine; wrote a simple MongoDB database wrapper with Elixir; competed in FBLA, earning 1st place statewide and 10th nationally.

FoodMatch

Typescript, React, TailwindCSS, Python, ConvexDB

Link to Demo / Link to Devpost

- Created a full-stack website with user login, friend management, and a cuisine ranking system in the span of 30 hours for TreeHacks @ Stanford.
- Scraped food data using Python; built a front-end with ReactJS with TypeScript and Tailwind.

Fake News Chrome Extension

JavaScript, Python, HTML/CSS, Vue, Flask

Link to source code

- Created a Google Chrome extension and full-stack website that parsed website data and displayed potential news bias and a trustworthiness index
- Built an API with Python using Flask; trained a machine learning model using TensorFlow; programmed the website with Vue.

SKILLS

Languages: Python, Java, C++, C#, Javascript (Most to least proficient)

Technical Skills: Git, React. JS, Vue. JS, Mongo DB, Unity, Discord. py, HTML/CSS, LATEX

Software: Photoshop, Final Cut Pro, After Effects, Autodesk Inventor