Kyle He

(408) 310-3980 • kphe@usc.edu • ⧉ kyle-he

EDUCATION

University of Southern California
B.S. in Computer Science   Expected Graduation: May 2026

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

Lynbrook High School   July 2018 - May 2022

GPA: 3.98/4.0 (Unweighted)

Relevant Coursework: AP Computer Science A, Multivariable Calculus (Dual Enrollment), Linear Algebra (Dual Enrollment), Introduction to Cloud Computing AWS (Dual Enrollment)

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.

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.

Troop 452 Discord Bot
Python, Flask, Discord.py, MongoDB   Link to source code

- Created a Discord server management system for my Boy Scout troop.
- Developed scripts that managed user data, maintained a live scoreboard, and processed data from Google Sheets; programmed a Python web server to relay emails to Discord.

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, MongoDB, Unity, Discord.py, HTML/CSS, LaTeX
Software:	Photoshop, Final Cut Pro, After Effects

Last updated: January 30, 2023