

Education	University of California, Los Angeles B.S. Computer Science, GPA: 3.602	Anticipated Jun 2023
Skills	Languages: Python, C/C++, HTML, CSS, SQL, PHP, Bash JavaScript, C# Technologies: Linux, Git, Flask, Django, React.js, MySQL, Docker, Arduino, Unity	
Experience	The Aerospace Corporation - Technical Intern Jun 2021–Sep 2021 <ul style="list-style-type: none"> Introduced a Flask RESTful API backend service and web app interface for astronomical time system translations using Earth Orientation Parameters data from MySQL database Designed and implemented a department portfolio website using React to centralize news, projects, capabilities, and contact information for current and prospective customers Added capabilities to an on-campus video wall application using Unity and C# scripts to modify user viewport, display PDFs and HTML webpages, and an interactive calendar iD Tech Camps - Online Instructor Jul 2020–Apr 2021 <ul style="list-style-type: none"> Taught K-12 students C++, Scratch, Arduino, and Minecraft in online private lessons Developed programming and technology curriculum for individual students and skill levels 	
Campus Involvement	Bruinwalk - Software Engineering Intern Oct 2021–Present <ul style="list-style-type: none"> Develop full stack app for sharing UCLA professor and class reviews used by 50k students Update user interface with HTML, CSS, and Django for website redesign initiative Institute of Electrical and Electronics Engineers - Project Member Sep 2019–May 2021 <ul style="list-style-type: none"> Strengthened practical programming skills in embedded systems and electrical engineering projects through Micromouse and OPS (Open Project Space) Soldered and programmed an autonomous maze-solving robot and developed data structures in C to record maze environment and robot positioning and calculate Manhattan distances in order to execute flood fill algorithm using a circular queue Coded a “Red Light, Green Light” game between 2 Arduinos with UART protocol Transcribed full-length piano pieces/pop songs into code for an 8-bit Arduino music player 	
Projects	Tu.Can - Full Stack Messaging Web Application Jan 2021–Mar 2021 <ul style="list-style-type: none"> Programmed an instant message application using MERN stack with user authentication Built frontend components for login page, registration page, and various color themes Implemented API routes to update MongoDB database in real time with Pusher middleware TI-RSLK - Autonomous Line-Following Car May 2020 <ul style="list-style-type: none"> Programmed PID feedback loop in C++ for TI-RSLK robot to follow 2 arbitrary paths Calibrated autonomous steering in Excel using sensor fusion and normalizing 8 IR sensors Scored fastest overall completion time across both paths in a 20-person lab section Mori - Arduino Memory Game May 2020 <ul style="list-style-type: none"> Built a memory game in Arduino/C++ by flashing strings of numbers in the console Programmed logic to track game state, player reaction times, and overall score Plotted in Python to visualize relationships between game settings and player performance 	