

Cameron Lee

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Education

Bachelor of Science, Computer Science
San Diego State University, San Diego, CA

Expected May 2026
3.7 GPA

Skills

Programming: C/C++, C#, Java, Python, Assembly, Scala, R, Git, HTML/CSS/JavaScript, ROS2, Bash

Platforms/Tools: Windows, Linux, macOS, iOS, Android, GitHub, Vim, VSCode, Visual Studio, VMWare

Projects

F1TENTH Autonomous Racecar - Senior Capstone Project

Fall 2025 - Present

- Designing and implementing autonomous driving algorithms (SLAM, pathing, obstacle avoidance) on a 1/10th scale racecar using ROS2 and onboard sensors (LiDAR, camera).
- Collaborating in a 5-member Agile team using Scrum methodology.
- Integrating hardware and software systems with testing in both simulation and on physical deployments.

PINS GUI and NEEDLE SDK

Summer 2023 - Spring 2024

- Created a real-time network traffic monitoring dashboard in C++ using the C Socket library.
- Developed a detachable backend SDK to allow developers to easily integrate client connections in the PINS host application

ShareTea Customer Data Collection and Text Messaging Service

Fall 2023

- Built a Python service to extract and organize customer data from ShareTea's POS system.
 - Automated SMS promotions with the TextBelt API, increasing campaign engagement by 200% for 600+ loyalty members.
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Experience

Undergraduate Research Assistant | San Diego State University

June 2025 - August 2025

- Conducted research, under *Professor Donyanavard*, on methods for quantifying uncertainty in Visual-Inertial Simultaneous Localization and Mapping (VISLAM) systems.
- Analyzed how hardware differences and computational environments impact uncertainty estimates and localization accuracy.

Instructional Student Assistant | SDSU CS Department

August 2025 - Present

- Tutored undergraduate students in computer science, clarifying core concepts and debugging strategies.
- Developed Java and Bash based autograding scripts to automate testing of student assignments, reducing grading time and ensuring consistency.
- Supported faculty with coursework management and technical assistance for 100+ students.

Treasurer & Founding Member | Coalition of Tech Reps and Leadership, SDSU

May 2025 - Present

- Helped establish a coalition uniting computer science clubs at SDSU, managing finances and securing resources for events and sponsors.
- Collaborated with leadership from multiple CS clubs to coordinate cross-club events, boosting student engagement and visibility.

Manager | Abbey's Real Texas BBQ

March 2024 - Present

- Advanced from cashier/server to manager; supervised 10+ employees and oversaw daily operations.
- Designed and implemented a standardized inventory system with checklists and par levels, reducing ordering time by ~50% and virtually eliminating midweek stockouts.
- Streamlined scheduling and operational workflows, improving team productivity and customer satisfaction.