

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

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 (VSLAM) 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.
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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** **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** **Summer 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.