

Derrick Phan

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Education

California Polytechnic State University

Bachelor of Science in Computer Science (GPA: 3.45)

San Luis Obispo, CA

Expected Graduation: Mar 2026

Relevant Coursework: Data Structures, Object Oriented Programming, Computer Organization, Systems

Programming, Discrete Structures, Design and Analysis of Algorithms, Software Engineering, Computer Architecture

Honors: Dean's List Fall 2022, Dean's List Winter 2024

Experience

Web Development Intern

March 2024 – Present

Cal Poly Bailey College of Science and Mathematics

San Luis Obispo, CA

- Oversee 23 subdomains handling 15,000+ users using HTML, CSS, JavaScript, and Drupal, enhancing functionality and visibility while ensuring prompt resolution of technical issues to retain user satisfaction and website reliability.
- Consult for Cal Poly by revising and revamping limitations of subdomains and collaborating with clients of each subdomain, utilizing Trello and Excel to manage project implementation, deadlines, and communication.
- Performed data analysis and assessed user experience through Google Analytics to facilitate website redesigning, improving performance and usability with a 20% increase in user engagement and a 70% reduction in broken links.

Area Manager Intern

June 2024 – Sept 2024

Amazon

Little Rock, AR

- Managed operations at LIT2 in the Ship Dock department of 30+ Amazon Associates, insuring that 12,000+ daily packages are shipped on time while maintaining product quality and excellence to sustain customer satisfaction.
- Initiated a process improvement called dynamic pallet binding on sorting lines, improving associate rates by 15% and decreasing missed packages by 17%, ultimately resulting in annual savings of over \$270,000.
- Fostered a positive work environment for all Amazon Associates, emphasizing communication and collaboration.

Projects

PolyMaps | *React Native, JavaScript, CSS, Firebase, Apple Maps API, VS Code, GitHub*

May 2024 – Present

- Developing a full-stack iOS app that integrates Apple Maps API to display a map of 400+ clubs and organizations on the Cal Poly campus, with the purpose of helping students get involved with on-campus activities.
- Incorporated user-friendly interfaces and functionalities including unique to user calendars, location and club search systems, club information cards, and date filters using React Native libraries.
- Implemented FireBase authentication for secure user login and utilized its database to store club and event details.

MAC Terminal Shell Simulator | *C, Unix, GitHub*

Jan 2024 – March 2024

- Constructed a custom terminal emulator that modeled core shell commands 'cd', 'ls', 'touch', 'mkdir', and 'exit'.
- Organized inode lists and leveraged binary file structures by reading and writing to inodes in binary mode to accurately simulate the operations and enable realistic execution of each command.
- Deployed efficient memory management techniques, properly allocating and deallocating resources, which optimized performance and prevented memory leaks within the system.

Transpare.io | *React, JavaScript, HTML/CSS, GraphQL, VS Code, GitHub*

June 2023 – Sept 2023

- Built a digital gaming platform/webpage that allowed players to experience a diverse range of entertaining games.
- Engineered the architecture, back-end logic, and database of the sports page, establishing operational success.
- Enhanced the user interface by optimizing navigation and incorporating intuitive design elements, resulting in more visual consistency, guaranteeing a seamless and user-friendly experience.

Skills & Interests

Programming Languages: Python, Java, C, JavaScript, TypeScript, HTML/CSS, R, RISC-V Assembly, GraphQL, Snap

Frameworks: React/React Native, Node.js, FlutterFlow, Firebase, Tailwind CSS, JUnit, Google API, Apple Maps API

Developer Tools: Git, GitHub, VS Code, XCode, PyCharm, IntelliJ, Clion, Unix, Google Analytics, Google Cloud Platform, Screaming Frog SEO, Figma, Adobe, Microsoft Excel

Languages: English, Mandarin, Spanish (Limited Proficiency)

Interests: Artificial Intelligence, Cybersecurity, Web Development, Table Tennis, Basketball, Golf, Gaming, Traveling