

EDUCATION

California Polytechnic State University, San Luis Obispo (Cal Poly SLO)

San Luis Obispo, CA

B.S. Computer Science • Major GPA 4.0 • Dean's List x8 quarters

Expected June 2026

Coursework: Operating Systems, Algorithms, Networks, Computer Security, Programming Languages, Deep Learning (in progress), Knowledge Discovery from Data (in progress), Databases, Data Structures, Software Engineering

TECHNICAL SKILLS

Languages & Databases: C, Python, Java, JavaScript, TypeScript, R, Racket, HTML, MySQL, H2

Frontend & Backend: React, React Native, Expo, Hilla, Java Spring Boot, NodeJS

Other: Jira & JQL, Git, Figma, Microsoft Office, Excel, Agile Development, Slack, APIs

EXPERIENCE

Cal Poly ITS Service Desk

August 2023 – Present

Lead Student Assistant

San Luis Obispo, CA

- Manage 30+ student assistants, leading hiring, interviews, scheduling, and training.
- Serve as the primary escalation point for complex technical issues across software, networking, and hardware.
- Develop and maintain Jira dashboards, using JQL, to monitor hundreds of support tickets across multiple channels, enforce process consistency, and ensure accountability across the team.
- Coordinated transition of operations to the new library site.

Cal Poly Summer Undergraduate Research Project - IntelliSAR

June 2024 – September 2024

Research Assistant

San Luis Obispo, CA

- Led a team to build a Bayesian Network in Python: cleaned and analyzed datasets with pandas, and initiated structure learning to improve probabilistic analysis.
- Implemented AI model visualizations on the project website using JavaScript, adding error handling and refactoring code for future scalability.
- Developed mobile UI features in React Native/TypeScript, including navigation and photo upload components.

PROJECTS

Relational Algebra Interpreter

2025

- Built a Python relational algebra interpreter using Lark and pandas, with MySQL integration, dynamic query evaluation, CLI interface, and CSV export for hands-on student learning.

Reliable File Transfer Protocol

2025

- Implemented TCP-like reliability over UDP in C with sliding window and selective repeat, supporting packet buffering, reordering, and retransmission.

Lightweight Processes Threads Library

2025

- Developed a user-level threading library in C to support concurrent execution of multiple lightweight threads.

Flickr – Movie Selection Website

2024

- Integrated Java Spring Boot backend, React frontend, and H2 database with Hilla and movies sourced from an external API to provide a group-based movie selection system.