Eli Schiffler

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EDUCATION

Cal Poly, San Luis Obispo
B.S. in Computer Science, Expected 2027 | GPA: 3.68 | Dean's List: 6/6

WORK EXPERIENCE

Quantum Intern, Sandia National Laboratories, Albuquerque June 2025 - August 2025
- Aligned optical systems to trap and cool ions using precise laser beam paths
- Supported quantum optics experiments while deepening understanding of quantum physics principles
- Collaborated closely with lab researchers to troubleshoot and optimize experimental setups

SKILLS & RELEVANT COURSEWORK

Skills: Python, JavaScript, C/C++, Java, SQL, React, Vite, Qiskit, Git, AWS, Vercel, Render, VSCode, Jupyter, REST APIs, JSON, Ion Trapping, Quantum Circuit Design

Relevant Coursework: Data Structures, Systems Programming, Computer Organization, Object-Oriented Design, Discrete Structures, Algorithms, Database Systems, Linear Algebra

PROGRAMMING PROJECTS

Personal Portfolio Website
Technologies Utilized: React, JavaScript, Github Pages
- Designed and developed a responsive personal portfolio to showcase resume, projects, and interests
- Implemented interactive components for a smooth user experience, including project galleries and hover effects

File Compression/Decompression System
Languages Utilized: C++
- Developed a lossless image compression system converting BMP files using Huffman encoding
- Built bitmap header and Huffman code to restore the Huffman tree during decompression
- Added an optional quality reduction feature to further reduce file size while maintaining readability

Roadtrip Planner Web Application: Team Project
Languages and Tools Utilized: Python, JavaScript, React, Vite, AWS Cognito, Render, Vercel, REST API
- Integrated APIs to fetch travel-related data to provide users with customized recommendations
- Built a user-friendly UI with interactive maps, personalized itinerary, and a responsive chat design
- Worked under a mentor from IBM who taught us proper coding technique and design process thinking

CAMPUS INVOLVEMENT/VOLUNTEER WORK

Quantum Computing Club, President January 2024 - Present
- Lead weekly meetings to teach members Qiskit and core quantum computing concepts through live demos and coding workshops
- Develop original lesson plans and presentations to make complex topics like quantum gates and circuits approachable for all experience levels

Sigma Pi Fraternity, Social Chair June 2024 - June 2025
- Organized and executed social events, managing budgets, logistics, and partnerships to enhance member engagement

Orientation Leader, Volunteer (150+ hours) August 2024 - September 2024
- Guided groups of new students through orientation, fostering community, answering questions, and assisting with the transition into college life