Eli Schiffler

elischiffler.dev | 612.704.6616 | schifflereli@gmail.com | linkedin.com/in/eli-schiffler-93a69a298

EDUCATION

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

WORK EXPERIENCE

Quantum Computing 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