Eli Schiffler

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EDUCATION

California Polytechnic State University, San Luis Obispo (Cal Poly)
Third-Year Standing
GPA: 3.64 March 2025

Relevant Coursework: Data Structures, Intro to Computer Organization, Project-Based Object-Oriented Programming and Design, Physics Series, Discrete Structures, Systems Programming

SKILLS

Programming Languages: Python, JavaScript, C/C++, Java
Software Tools: VSCode, React, Vite, AWS Cognito, Render, Vercel, Jupyter Notebook, Git, REST API, JSON

PROGRAMMING PROJECTS

File Compression/Decompression System
Languages Utilized: C++
• Developed a lossless image compression system converting BMP files using Huffman encoding
• Implemented a bitmap header and Huffman encoding to reconstruct the Huffman tree for 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 third-party APIs to fetch travel-related 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

WORK EXPERIENCE

Demonstrated excellent teamwork, time management, customer service, and communication skills through the following employment:
Server - Vandy's Grille, Waconia, MN (20-30 hours/week) 2020 - 2024

CAMPUS INVOLVEMENT/VOLUNTEER WORK

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

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

Quantum Computing Club, New-Member Outreach January 2024 - Present
• Developed strategies to recruit new members via presentations and flyers
• Explored quantum algorithms and attended workshops to prepare for the IBM quantum challenge

Women in Physics, Speaker February 2025
• Created and presented quantum erasers and quantum chess, explaining complex quantum concepts through interactive demonstrations