Ala Alawdi

Oakland, CA 94603, USA
Phone: 510-299-6512
Email: alaalawdi@outlook.com
LinkedIn: www.linkedin.com/in/ala-cs
Portfolio: https://asskdh.github.io/my-portfolio/

Professional Summary
Computer Science student with a strong foundation in algorithms, data structures, and systems programming. Experienced in building scalable C++ applications and translating algorithmic logic into JavaScript for web-based solutions. Seeking a software engineering or related technical internship to apply problem-solving skills in real-world systems.

Education
University of California, Santa Cruz — Santa Cruz, CA
Bachelor of Science in Computer Science
Expected Graduation: 2027
Chabot College — Hayward, CA
Associate Degree in Mathematics
Completed general education coursework across multiple California community colleges
Overall GPA: 3.5

Technical Skills
Programming Languages: C++, Python, JavaScript, HTML, CSS, Assembly (MIPS, x86)
Tools: Git, GitHub, Visual Studio Code, Jupyter Notebook, Linux/Ubuntu
Concepts: Data Structures, Algorithms, Breadth-First Search (BFS), Object-Oriented Programming, Memory Management

---

Experience & Projects
Personal Web Portfolio & Application Development
Self-Directed Projects | 2024–Present
• Designed and developed a personal portfolio website using HTML, CSS, and JavaScript to showcase interactive software projects.
• Built a **Big Number Calculator** capable of computing extremely large values (e.g., 2000!) by converting an original C++ big-number arithmetic implementation into JavaScript for browser execution.
• Built a flight route finder using BFS to compute shortest paths between departure and destination cities.
•Translated the BFS-based route-finding logic from C++ into JavaScript and integrated it with dynamic user input and route output on the web interface.
• Addressed challenges in linking graph traversal algorithms with real-time web interaction, improving correctness and usability of path results.
• Created a **Typing Placement Test** that evaluates typing speed and accuracy to determine the appropriate starting skill level for users.
• Enhanced the portfolio with additional small features and optimizations to improve performance, structure, and user experience.

Additional Projects
Interrupt Handler Simulation (MIPS & x86 Assembly)
Developed an interrupt handler simulation to understand low-level system behavior, registers, memory, and instruction execution.

Work Experience
Retail Operations Assistant
Grocery Store — Oakland, CA | 2023
• Supervised daily store operations and inventory management.
• Coordinated with vendors and suppliers to ensure consistent product availability.
• Assisted with staff coordination and maintained an efficient, organized retail environment.

Certifications
Associate Degree in Mathematics