Benjamin Lu

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EDUCATION

University of California, Irvine   June 2026
B.S., Computer Science
GPA: 3.3

TECHNICAL SKILLS

Programming Languages: C, C++, C#, Java, Python, HTML, SQL, JavaScript, Assembly
Frameworks/Tools: HTML/CSS, Node.js, REST APIs, Git, TMUX, Neovim, Excel
Operating Systems: Windows, Linux
Concepts: AI development, Data Structures, Full-stack Web Development, IoT, server hosting
Other: Raspberry Pi, Arduino, OpenCV

EXPERIENCE

Pearl Nails

Assistant Manager | Fresno, CA   February 2021 - June 2024
- Created and maintained financial tracking sheets in Excel that reduced monthly operational errors by 15%
- Scaled daily appointments by 20% through efficient scheduling, walk-in management, and customer service.
- Optimized vendor selection and coordinated staff purchasing needs, resulting in reduced supply costs by 5%

PROJECTS

Zummerizer - AI Website Summerizer

Project Lead / Full-Stack Developer   February 2025 - March 2025
- Programmed an AI-powered web app that reduces articles by 60% to a concise generated summary by integrating AWS Lambda, API Gateway, and Bedrock.
- Improved user engagement and accessibility by 30% with a responsive frontend powered by AWS Amplify
- Implemented OpenAI integration to extract and prioritize key insight information relevant for end users

Interactive Graph Traversal Algorithm Learning Website

Full-Stack Developer   July 2025 - Present
- Collaborated in a team-based development environment to design and build a browser-based learning platform using JavaScript, HTML/CSS, and Cytoscape.js for interactive Depth First Search
- Leveraged Git branching workflows to coordinate contributions, resolve merge conflicts, and maintain a clean project history
- Integrated a quiz system and modular architecture, enabling current Depth First Search functionality and planned expansions to BFS and A* path finding algorithms

TF2 Facial Tracking Turret

Hardware & Software Engineer   March 2024 - May 2024
- Achieved 90%+ facial detection accuracy by combining Python-based OpenCV recognition with C++ motor control logic
- Increased operational uptime by 40% through optimized power management and Linux deployment using TMUX and Neovim
- Designed and implemented an IoT-enabled circuit layout, enabling real-time control and monitoring of sensors and motors

ACTIVITIES

Association for Computing Machinery (ACM) Club

Facilitator | Fresno, CA   November 2022 - June 2024
- Planned and coordinated hardware/software workshops by collaborating with board members to create engaging, skill-building content for participants
- Assisted in the development and delivery of presentations on TMUX, PC building, and beginner project guides