

Ethen Dhanaraj

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EDUCATION

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

Bachelor of Science

Santa Cruz, CA

Expected June 2029

Major in Electrical Engineering; Minor in Technology Information Management

Relevant Coursework: Computer Systems and C Programming, Computer Systems and Assembly Language, Linear Algebra, Calculus I & II, Physics I & Laboratory, Introduction to Computers and Networks, Introduction to Internet of Things

WORK EXPERIENCE

USHUR

Machine Learning Intern

Santa Clara, CA

Jun 2023 – Aug 2023

- Obtained practical experience with Customer Experience Automation systems, which intelligently automate complete customer experiences.
- Developed AI-powered workflows for practical uses, such as arranging appointments, processing claims, and providing customer service.
- Worked with regulated sectors, such as financial services, healthcare, and insurance, to comprehend automation and compliance needs.

PROJECTS

CHAINPILOT

May 2026

- Engineered end-to-end data pipelines to ingest, process, and analyze supply chain data, enabling the AI agent to make dynamic, context-aware decisions without human intervention
- Built and demoed a fully functional prototype within a 24-hour sprint, showcasing autonomous decision-making across supply chain variables such as inventory, logistics, and demand forecasting
- Architected a machine learning model leveraging agentic AI frameworks to prioritize and act on supply chain issues, reducing reliance on manual intervention

ACTIVITIES

FORMULA SLUG

High Voltage Member

Santa Cruz, CA

Oct 2025 – Present

- Performed electrical schematic design and PCB layout for high voltage components using industry-standard CAD tools.
- Diagnosed and troubleshooted faults in the HV interlock loop and safety shutdown circuitry.
- Assembled and tested lithium-ion battery pack segments, including cell welding/bonding, module integration, and insulation resistance testing.

180 DEGREE CONSULTING

Junior Consultant

Santa Cruz, CA

May 2026 – Present

- Worked directly with nonprofit clients to diagnose operational gaps and deliver actionable recommendations across a 10-week engagement cycle.
- Conducted market research and stakeholder interviews to build out strategy decks used in client presentations.
- Collaborated with a team of 4–6 consultants to scope project deliverables, divide workstreams, and hit weekly milestones.

LEADERSHIP

ALPHA KAPPA PSI, CHI GAMMA

Vice President of Professional Development

Santa Cruz, CA

May 2026 – Present

- Founded Alpha Technologies a subsidiary organization to promote the technical education of our members.
- Focused on increasing engagement within the chapter, which resulted in a 160% increase.
- Collaborated with brothers to innovate and improve procedures for the longevity of the chapter.

ADDITIONAL

Technical Skills: Python, Java, HTML, CSS, SQL, C, React, Node.js, JavaScript

Technology: Fusion, Onshape, Git, MATLAB, AI, NLP, KiCad