

Tyler Ham

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EDUCATION

University of California, Santa Cruz

B.S. Computer Science

Santa Cruz, California

Expected Graduation, June 2027

- GPA: 4.00/4.00, *Dean's Honor List*
- Related **Coursework:** Data Structures and Algorithms, Computer Systems and C Programming, Computer Architecture, Programming Abstractions in Python

PROJECTS

GitScribe | *React | Express.js | MongoDB*

- Built a website that leverages the Anthropic API to rank contributors to open-source repositories by impact
- Developed RESTful API to access MongoDB database and GitHub/Anthropic APIs
- Implemented axios requests and integrated data to a React frontend

VisiBill | *React Native | Flask | OpenCV*

- Developed an app to aid the visually impaired in keeping track of physical currency.
- Trained a YOLOV8 object detection model to detect US dollar bills with 93% accuracy.
- Built frontend components and Wallet-tracking page with React Native

SlugSwole | *Flutter | Google Cloud + Firestore | Python + bs4*

- Developed a Flutter + Firestore app to track, analyze, and chart the capacity of the UCSC gym
- Built and deployed a data-gathering webscraper to Google Cloud Functions, increasing uptime by 20%
- Managed database and built backend services to handle API calls
- Currently working to integrate application into the Slug Dining app, being used by 1000+ students

EXPERIENCE

Hewlett-Packard Enterprises

Client/Servers, APIs, Security, Siloed Teams & Role Management Certification

Roseville, California

March 2025

- Led an 8-person team to design and deploy a full-stack application in under 6 hours
- Developed Python-based microservices to handle GET and POST requests from a RESTful API
- Coordinated development through simulated time zones

Project Management Certification

August 2024

- Directed 30+ programmers during a simulated sprint to build a data-driven application
- Wrote algorithms to determine trend of consumer purchases using Python and Matplotlib

Code Ninjas

Roseville, California

Camp Sensei

Summer 2024 and 2025

- Developed and taught six week-long camps on topics such as AI models, 3D design, and Lua
- Instructed students on programming and DSA concepts such as loops, Boolean logic, and stacks/queues
- Guided students through curriculum by debugging and resolving logical errors with Python and JavaScript

OTHER QUALIFICATIONS

UCSC ITS Department

ResNet Technician

September 2025-November 2025

University of Helsinki

Full Stack Open React Certification

August 2025

SKILLS/INTERESTS

Programming: Python, C, Flutter, React, JavaScript, Express.js, HTML/CSS, OpenCV

Tools/Libraries: MongoDB, Docker, Google Cloud Developer Tools + Firebase, Postman, Git, Github, Gitlab

Affiliations: Google Developer Groups on Campus, UCSC Rocket Team, UCSC Neuromorphic Computing Lab

Interests: Mountain Biking, Model Kits, Cooking, Reading, 3D Printing