

# Ethan Ma

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## EDUCATION

**University of California Santa Cruz** Sep 2020 - Mar 2024  
B.S. Computer Science (Honors); Minor in Mathematics GPA: 3.69  
Relevant Coursework: Cryptography, Graphics, Artificial Intelligence, Databases, Distributed Systems  
Honors & Awards: Dean's List (8 quarters)

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## SKILLS

**Frameworks:** React.js, Node.js, Express.js, REST APIs, HTTP, MongoDB, PostgreSQL

**Programming Languages:** Python, JavaScript, C, C++, Java, SQL, R

**Tools:** Linux, Git, Agile/Scrum, Jenkins, PyCharm, VSCode

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## WORK EXPERIENCE

**Business Architecture Intern** (4 months) Jun 2023 – Sep 2023  
*Cisco – San Jose, CA*

- Led initiatives on solution design for a notification process to enhance products across the business
- Designed process flow through robotic process automation for a 3.1-billion-dollar market in Mexico
- Developed Webex bot to provide easy access to product information from database

**Software Engineer Intern** (1 year) Jun 2022 – Jun 2023  
*Cisco – San Jose, CA*

- Optimized code for repair platform capability and delivered production yield improvements by 15%
- Implemented new python suites for next gen test system on Cisco switches
- Created python application to maintain latest code and record all deployed products to servers
- Developed python scripts to track and improve field usage of solid state drives

**Python Course Tutor Lead** (5 months) Sep 2021 – Jan 2022  
*UCSC Baskin School of Engineering – Santa Cruz, CA*

- Hosted weekly discussion sections to help students better understand coursework
- Tutored 100+ students in Python, significantly improving their academic performance

**Assistant Swim Coach** (5 years) Sep 2016 – Aug 2021  
*San Ramon Aquacats – San Ramon, CA*

- Guided athletes from ages 3-18 to swim all four strokes and strategies to improve endurance
- Coached groups of 30+ swimmers to learn proper technique and reinforce sportsmanship

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## PROJECTS

**Training Control Center** | Javascript, MongoDB, Express.js, React.js, Node.js

- Created a full-stack web application for workout analysis and planning, scraping data with Strava API
- Demonstrated Agile Project Management in a 4-person team for a 12-week sprint

**Multithreaded HTTP Server** | C

- Designed and implemented web server that processes atomic REST requests
- Performed stress tests and fixed bottlenecks resulting in run time improvement of more than 2x

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## ORGANIZATIONS

**Eagle Scout**

- Achieved the highest rank in the Scouting America program on Oct 4, 2018

**Triathlon Club, UC Santa Cruz** | President

- Managed team of 6 officers and coordinated yearly event schedule for a 30+ athlete club