

Matthew Wang

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education

B.S. in Computer Science &
B.S. in Math-Economics // UCLA (Grad: 2022)
GPA: 3.8, Engineering Dean's Honors List ('18-'21)

work

Incoming Software Engineering Intern // Facebook
Fall 2021 | Menlo Park, CA (Virtual)

Software Engineering Intern // Adobe
Summer 2021 | Lehi, UT (Virtual)

- Implemented auto-remediation system to resolve Kubernetes cluster resource issues (JavaScript, AWS: Lambda, DynamoDB, SQS, PromQL, Azure DevOps)
- Projected to save \$330k/year across 30 clusters

Software Development Engineering Intern // AWS
Summer 2020 | Seattle, WA (Virtual)

- Implemented end-to-end anomaly detection system to ingest, filter, and upload 10k metrics per 5 minutes (Java, AWS: Lambda, DynamoDB, SQS, CloudWatch)
- Developed REST API endpoints and accompanying multi-page dashboard + wizard (React, Java)

Software Engineering Intern // Booz Allen Hamilton
Summer 2019 | Los Angeles, CA

- Reversed-engineered and decoded live maritime vessel sensor data to server (C, NMEA2000)
- Fabricated data to disable devices and spoof GPS, navigation, AIS, autopilot (C)
- Developed GUI and backend to control embedded system over TCP (React, Electron, C)
- Supported 700+ person maritime security hackathon

Software Engineering Intern // AudioNotch
Summer 2017 | Toronto, Canada

- Developed 10-view mobile app for iOS and Android to aid tinnitus sufferers (Angular, Ionic)
- Implemented REST API and data protocol to perform authentication and file retrieval (Django)
- Refactored JS Web Audio API application, halving bundle size (JS, Django, PHP)
- Revamped products increased firm revenue by over 300% in the next three months

passions

Passionate about empowering people through computer science, education, and equity.

Interests: teaching and outreach, open-source, education, public policy, pedagogy, automation.

skills

Languages: JS, TS, Python, Java, C++

Web: React, Node, Express, Jest,
Enzyme, Django, Flask, SASS

DevOps: AWS, Docker, Kubernetes

Data: Firebase, SQL, PromQL, Splunk

organizations

President // ACM at UCLA

Spring 2021 - * | Los Angeles, CA

- Led largest CS org on campus, with 160 officers and 1000+ members
- Pushed for campus-wide D&I initiatives: ethics reform, outreach, accessibility
- Led shift to Next.js, accessible web practices, and standardized CI/CD
- Navigated safe return-to-campus
- Continued push for open-source culture

President // ACM Teach LA

Spring 2020 - Winter 2021 | Los Angeles, CA

- Led a club of 80+ students, balancing class instruction, events, and a dev team
- Pushed for transparency through public financial, EDI, and recruitment reports
- Created React Native high school class
- Taught AI & ML course at LA high school
- Acted as interim dev team director

Dev Team Director // ACM Teach LA

Spring 2019 - Winter 2021 | Los Angeles, CA

- Trained 50+ students in HTML, CSS, JS, React, and dev practices over 2 years; open-sourced all of our materials
- Spearheaded learning labs, interactive web modules to teach CS concepts
- Set up org-wide CI/CD (Stylelint, ESLint, Jest, Netlify, GitHub Actions)
- Architected and developed React + Redux frontend for online code IDE
- Managed Jekyll-based static site
- Volunteered at QWER Hacks '20 & '21, teaching React and Firebase workshops