

# matthew wang

## education

M.S. in Computer Science // UCLA (Grad: 2023)

B.S. in Computer Science &

B.S. in Math-Economics // UCLA (Grad: 2022)

GPA: 3.8, Engineering Dean's Honors List ('18-'21)

**Coursework:** Data Structures & Algorithms, Machine Learning, Data Mining, Programming Languages, Operating Systems, Compilers, and more

## work

**Software Engineering Intern // Facebook**

09/2021 - 12/2021 | Menlo Park, CA (Virtual)

- Created 3-view dashboard to unify 10k+ metrics from 4 different APIs (React, Relay/GraphQL, Hack)

**Software Engineering Intern // Adobe**

06/2021 - 09/2021 | 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**

06/2020 - 09/2020 | 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**

06/2019 - 09/2019 | Los Angeles, CA

- Developed embedded system to hack into a boat, controlling its network, sensors, and systems (C, NMEA)
- Created dashboard and backend to control embedded system over TCP (React, Electron, C)
- Supported 700+ person maritime security hackathon

**Software Engineering Intern // AudioNotch**

06/2017 - 09/2017 | 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)
- Reduced web app bundle size by 50% (JS, Django, PHP)
- Increased firm revenue by over 300% in next 3 months

## passions

**Empowerment through equitable CS education.**

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

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Website: [matthewwang.me](http://matthewwang.me)

GitHub: [@mattxwang](https://github.com/mattxwang)

## skills

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

**Web:** React, Next.js, Node, Express, Jest, Enzyme, Django, Flask, SASS

**DevOps:** AWS, Docker, Kubernetes, Unix

**Data:** Firebase, SQL, PromQL, Splunk

## organizations

**President // ACM at UCLA**

03/2021 - 03/2022 | Los Angeles, CA

- Led largest CS org on campus, with 250 officers and 1000+ event attendees
- Pushed for campus-wide D&I initiatives: ethics reform, outreach, web accessibility
- Led shift to Next.js, accessible web practices, and standardized CI/CD
- Kickstarted Rust gzip rewrite
- Organized several 200+ attendee events (welcome day, career fair, GM)

**President // ACM Teach LA**

03/2020 - 03/2021 | Los Angeles, CA

- Grew club from 20 to 80 members; led 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**

03/2019 - 03/2021 | 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
- Led React and Firebase workshops at QWER Hacks '20 & '21