

# Matthew Wang

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## EDUCATION

**B.S. in Computer Science & B.S. in Math-Economics - UCLA**

**Graduation: 2022**

- + **GPA: 3.8.** Engineering Dean's Honors List, Eric and Peggy Johnson Scholarship Recipient, Muriel K. and Robert B. Allan Fund Recipient, UCLA Achievement Scholarship Recipient

## WORK EXPERIENCE

**Software Development Engineering Intern - Amazon Web Services**

**2020**

- + Developed Java-based server daemon to poll data from internal monitoring metrics
- + Designed agnostic anomaly detection interface, with tests and documentation
- + Implemented React-based frontend to onboard users, configure metrics and detection
- + Trained custom anomaly detection model based on statistical regression

**Software Engineering Intern - Booz Allen Hamilton**

**2019**

- + Created pocket-sized embedded system to remotely control maritime vessels
- + Reverse-engineered closed-source NMEA 2000 protocol by analyzing network traffic
- + Parsed & decoded data live ship data from sensors to CLI & over-the-air server (C)
- + Fabricated data packets to disable devices and spoof GPS, navigation, autopilot (C)
- + Developed GUI to control embedded system over TCP (React, Electron) Supported at Hack the Machine, 700+ participant hackathon on maritime security

**Software Engineering Intern - AudioNotch**

**2017**

- + Developed mobile app for iOS/Android to help tinnitus sufferers with Angular/Ionic (authentication flow, audio manipulation w/ DSP, data visualization, in-app purchases)
- + Implemented server-side REST API and data protocol for mobile app logic (Django)
- + Refactored JS web application, halving bundle size (JS WebAudio API, jQuery)
- + Redesigned website & blog to be mobile-responsive and ARIA-compliant (CSS, PHP)
- + Ran A/B tests on landing page designs and CTAs (Google Analytics Experiments)
- + Revamped products increased firm revenue by over 300% in the next three months

## SKILLS

- + Programming Languages: JavaScript, Python, C, C++, Java, PHP
- + Frameworks & Misc: React, Redux, React Native, Angular, Node, Express, Jest, Enzyme, Django, Flask, SASS, SQL, Firebase, CI/CD (Travis, GitHub Actions, Appveyor)

## INTERESTS & PASSIONS

- + Primarily passionate about empowering people through computer science and education.
- + Interests: outreach, open-source software, development economics, current affairs.