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 ('18-'20), Eric and Peggy Johnson Scholarship Recipient, Muriel K. and Robert B. Allan Fund Recipient, UCLA Achievement Scholarship

EXPERIENCE

Software Development Engineering Intern – Amazon Web Services   2020

+ Ideated, designed, and developed solo intern project (automated anomaly detection)
+ Implemented automated data pipeline to ingest, filter, and upload 10k metrics/5 min (Java, AWS: SNS, SQS, Lambda, DynamoDB, CloudWatch, CloudFormation)
+ Performed user research and developed dashboard + webservice (React, Java)

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
+ Decoded and fabricated live ship data to control 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 (Angular + Ionic)
+ Implemented server-side REST API and data protocol for mobile app logic (Django)
+ Refactored JS web application, halving bundle size (JS WebAudio API, Django, PHP)
+ Revamped products increased firm revenue by over 300% in the next three months

President (2020), prev. Dev Team Director (2019) – ACM Teach LA

+ Led team of 15+ developers: project management, developer training, and code review
+ Developed and designed interactive learning modules for cybersecurity, ML (React, JS)
+ Designed curriculum for brand-new React Native class, geared towards high schools
+ Taught high school class on ML: linear/logistic regression, probability, neural networks

SKILLS

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

INTERESTS & PASSIONS

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