Matthew Wang

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EDUCATION

B.S. in Computer Science & Engineering – UCLA   Graduation: 2022
- Relevant Coursework: Intro C++, Data Structures, Computer Organization, Discrete Math
- Muriel K. and Robert B. Allan Fund Recipient, UCLA Achievement Scholarship Recipient
- GPA: 3.8, Engineering Dean's Honors List

WORK EXPERIENCE

Software Engineering Intern (Summer Games) – 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)
- Presented solution to senior leadership at McLean headquarters
- 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

Developer – ACM Teach LA Dev Team   2018-*
- In a team of 6, developed online IDE targeted at underserved students in LA (account management, online code interpreter, code saving/sharing)
- Fetched data from Firebase API to render interactive cards (React + Redux)
- Refactored site layout to be mobile-responsive and theme-consistent (SASS)
- Automated testing and deployment with Enzyme, Travis CI, and Firebase

SKILLS

- Languages & Frameworks: Javascript (React + Redux, Electron, Angular, Ionic, Node, jQuery), C, C++, Python (Django, Flask, NumPy), PHP, Java, HTML + CSS (SASS), SQL
- Software: Illustrator, Photoshop, InDesign, Premiere, Google Analytics, Travis, AppVeyor

INTERESTS & PASSIONS

- Community service, education & outreach, open-source software, current affairs, design