Matthew Wang

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EDUCATION

B.S. in Computer Science & Engineering – UCLA   2018-2022

+ Coursework: Intro to 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

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

WORK EXPERIENCE

Summer Games Intern – Booz Allen Hamilton   2019

+ Created embedded system to remotely command & control maritime vessels
+ Reverse-engineered closed-source NMEA 2000 protocol by analyzing traffic
+ Decoded and spoofed GPS, navigation, and autopilot by remotely shutting off ship sensors and injecting fabricated data packets with C socket-based routine
+ Developed GUI to connect & interface with embedded system (React, Electron)
+ Presented solution to senior leadership at McLean headquarters
+ Supported Hack the Machine, 700+ participant hackathon on maritime security

Software Development Intern - AudioNotch   2017

+ Developed mobile app for iOS/Android to help tinnitus sufferers with Angular/Ionic (authentication flow, audio manipulation, data visualization, in-app purchases)
+ Implemented server-side REST API for mobile app (Django, Nginx)
+ Redesigned website & refactored web-app (Django, JS WebAudio API, jQuery)
+ Refactored and redesigned WordPress blog (WordPress + PHP)
+ 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
+ Features user accounts, online code interpreter, and code saving/sharing
+ Implemented frontend with React + Redux, interfaced with Firebase Backend
+ Automated testing and deployment with Enzyme, Travis CI, and Firebase

INTERESTS & PASSIONS

+ Community service, education & outreach, open-source software, economics