Oliver Guo

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EDUCATION

University of California, Irvine M.S. Electrical Engineering — Expected 03/2020

Taiyuan University of Technology (TYUT) B.A. Electrical Engineering — 07/2018

WORK EXPERIENCE

Taiyuan University of Technology(TYUT) robotics laboratory — 08/2017-07/2018
- Built a four-legged crawling robot that listens to a master machine and performs gestures like straight-walk, turn-around, and push-ups
- Worked with a small team to coordinate software, mechanical, robot functions and communication protocols
- Used Matlab to calculate the Denavit–Hartenberg movement parameters and programmed a core robotic movement library that enabled more complex movements
  https://github.com/guojutaoo/Robotics

Resolve TOK Inc - Columbus, OH - Mobile app developer — 09/2019- Present
- Designing and building a React Native mobile social media app where users put monetary rewards for others to accomplish their tasks
- Worked on a team of five to quickly iterate on component interfaces and database modelling (backed FireBase)
- Integrating Algolia's multi-index InstantSearch to serve near real-time search results
- Implemented login flow with Google OAuth, phone number, and reCAPTCHA authentication

CrowdDoing - San Francisco, CA - Front-end developer — 08/2019 - 09/2019
- Developed batch data pipeline that ingests medicinal food data and generates cleaned nutritional data sets using Python and Matplotlib
- Implemented user-interface designs in React and CSS

PROJECTS

Projects in Databases & Web Applications (UC Irvine) — 03/2019 - 05/2019
- Developed a platform for buying and rating movies using Java (back-end), Apache Tomcat (Bootstrap, HTML, and CSS), MySQL and jQuery Ajax
- Added Google reCaptcha authentication and Servlet filters to prevent unauthorized access
  https://github.com/guojutaoo/Video-Me

Video Streaming Web Application — 08/2019 - 09/2019
- Developed a web video streaming application with React.js, Node.js and MongoDB
- Optimized and maintained a database for online video streaming
- Developed QA unit testing suite using Jest that improved code quality and prevented regressions
  https://github.com/guojutaoo/api

Online Book-Sharing Application (Gracepoint Southern California Ministries) — 06/2019 - 08/2019
- Developed a book and content sharing platform with social commenting and admin management features
- Designed and built the entire application using React.js, Go backend, PostgreSQL and axios for asynchronous data-feed API calls
  https://github.com/guojutaoo/dt

RELATED COURSES AND SKILLS

LANGUAGES AND FRAMEWORKS Java, JavaScript, Python, Go, C, HTML, CSS, SQL, Postgres, Firebase, React, React Native, Vue, Node.js

APPLICATIONS Git, Vim, IntelliJ, Eclipse, Vim

NON-CODING LANGUAGES Proficient in Mandarin Chinese and Cantonese

TECHNICAL COURSES Image Processing, Computer Network, Computer Architecture, Data Structure, Computer Security, Algorithm Design, Digital Simulation and MATLAB, Analog Electronics, Digital Circuits