Liang Dai

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An aspiring software engineer. Ready to get my hands dirty, eager to solve real-world challenges.

EXPERIENCE

Engineer @ TG Automotive Group LLC

Aug 2019 – Jan 2020 // Troy, MI
Based at SONIMA Corp., worked on engine block assembly automation project

- Designed, developed and implemented the GoNoGo project, which uses a camera to identify the QR code of the part to determine whether the first part enters the production line is correct.
- Implemented the OP400 production line image recognition system upgrade, completed 90 PTR parts tests, collected and analyzed 9,000 test data, and determined the final program parameters.
- Participated in the technical meeting and quotation meeting of the new beltline project of YanFeng Highland Park plant, and proposed a technical support plan.

Teaching Assistant @ Pace University

Jan 2019 – May 2019 // New York, NY
TA of CS641 Mobile Web Content and Development course (Angular 7, Ionic 4)

- Joined every class. Troubleshot and assisted the students with their in-class exercises during the lab session. Weekly assisted more than 10 students with their assignments and questions remotely.
- Graded and gave feedback on 29 students' assignments every week, and summarized students' common mistakes, then delivered logic and solution.
- Created and gave a lecture(3h) about the Angular App Architecture, also made the assignment and quiz on this topic.

ITS Student Technician @ School of Law at Pace University

Oct 2017 – May 2018 // White Plains, NY
Worked at ITS office, providing hardware and software support

- Assisted 10+ users daily by troubleshooting and resolving technical issues on devices.
- Maintained computers across several offices on campus. Reimaged Windows and MacOS, wrote scripts to configure the OS.
- Supervised 2 new student staff, guided them towards professionalism.

PROJECTS

Math Gun => ⊙ ⧉

- > An efficient, mobile and browser friendly Progressive Web App, built with vanilla JS, HTML canvas.
- > Implemented plot a line on canvas coordinates by the math equation. Helps to understand the slope and Y Intercept.

Explorer => ⊙

- > A hybrid mobile app, built with Ionic integrated Google Vision and Wiki API.
- > The app helps explore the world by taking any photo of what you're seeing, then the app will feed you the WIKI information.

SKILLS

Languages

JAVA, Python, C++, JavaScript(ES6), TypeScript, HTML, CSS/SCSS, Arduino

Web & Mobile Technologies

Angular, Ionic, Cordova, Node.js, REST API, PWA, Responsive web design, Bootstrap, jQuery, Android SDK, iOS SDK

Machine Learning

NumPy, Pandas, Beautiful Soup, OpenCV, TensorFlow, Keras, Scikit-learn, NLTK

Tools & Others

GCP, Chrome DevTools, Git & Github, Bash, Tomcat, Postman, Google Colab, MySQL, Firebase, SQL, Agile methodology

EDUCATION

Pace University

2017 – Jun 2019 // Pleasantville, NY

Master of Science in Computer Science
GPA: 3.61

Nanjing University of Posts and Telecommunications

2011 – Jun 2015 // Nanjing, China

Bachelor of Management in Information Management and Information Systems
GPA: 3.29

VOLUNTEER WORK

New York Chinese school at White Plains

Jan – Jun 2018 // White Plains, NY

Chinese teacher for class CSL4

Beijing Sunrise Youth Hostel Beihai Branch

Jun – Oct 2016 // Beijing, China

Receptionist and bartender