

# LIANG DAI

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I'm a new grad, master in CS, I'm ready to get my hands dirty, eager to learn new technology, aspiring to solve real-world challenges

## EDUCATION

<b>Pace University – Seidenberg School of Computer Science and Information Systems</b>	<b>Pleasantville, NY</b>
<b>Master of Science – Computer Science</b> GPA: 3.61	September 2017 — May 2019
<b>Nanjing University of Posts and Telecommunications (NUPT)</b>	<b>Nanjing, China</b>
<b>Bachelor of Management – Information Management and Information Systems</b> GPA: 3.29	September 2011 — June 2015
<b>Honors:</b> National Silver Award of 9th Challenge Cup College Students Entrepreneurship Competition (top 5% of total participants, 2014)	

## TECHNICAL SKILLS

<b>Programming Languages:</b> Java, Python, R, Swift, SQL, C++, Arduino	<b>Database:</b> MySQL, Firebase
<b>Web technologies:</b> HTML5, CSS3, JavaScript, TypeScript, Tomcat, REST API	<b>Tools:</b> qTest, Postman, Docker, Jupyter, Colab
<b>Front End:</b> Angular 7, Cordova, Node.js, Ionic4	<b>OS:</b> macOS, windows, Linux, ubuntu, GCP
<b>Machine Learning:</b> Tensorflow, Keras, scikit-learn, NumPy, NLTK, OpenCV	<b>Version Control:</b> Git, GitHub, Bitbucket

## PROJECTS

**Maintain my own car:** Fixed and maintain my own 2004 ford Taurus for 2 years, including water pump replacement, timing cover replacement, regular maintenance, have a deep understanding on Engine, Transmission, control system on vehicles.

**Mobile web project:** Math Gun – An efficient, mobile and browser friendly Progressive Web Apps, aims to help to plot a line on canvas by the equation. Using HTML5, CSS3, JavaScript, this project is open sourced on GitHub.

**Ionic Project:** Explorer – A hybrid mobile apps which help explore the world by using Google Vision and Wikipedia API. Coding in Angular 6, building with Ionic 4 and Cordova. Worked on the REST/Web API to create the services and tested on postman and used in AngularJS \$HTTP service calls and bind the data in the card.

**UI Design project:** Bridget Riley Drawing – A Bridget Riley style drawing web page, Coding in Angular 6, Using native Canvas API. Integrate with device accelerometer, give the drawing a smooth nature movement, while moving the device.

**Deep learning project:** Diabetic Retinopathy Detection – Using Tensorflow with Inception-v3 CNN-model, result in 74.8% accuracy.

**Capstone project:** EZ Park – Android App which helps users find parking spot. The app using Firebase and Google Map API, and maintain on Bitbucket. The project follows the Agile Methodology. My role is the developer in the team, also lead the retrospective meeting at the end of every iteration. Fully involved the whole life cycle of project development.

## EXPERIENCE

<b>TG Automotive Group LLC</b>	<b>Troy, Michigan</b>
Software engineer Intern at SONIMA Corp.	Aug 2019 - Current
<ul style="list-style-type: none"><li>Understand logic of four manufacturing operation lines which assembles oil pans, and control system HMI, PLC, and PC.</li><li>Learn the camera QC System, write in C++ using OpenCV, learn Denso Robot control system.</li><li>Developing GoNoGo project, which can validate whether if the operator put the correct part on the table. Write C++ App to build connection with camera and Arduino, write Arduino code to trigger the relay, and build a prototype.</li><li>Attend Yanfeng Automotive Interior Systems LLC new belt conveyor and overhead conveyor project tech and procurement meeting as its first supplier Kunshan Speed Auto Machinery Co., Ltd consultant partner.</li></ul>	
<b>Seidenberg School of Computer Science and Information Systems at Pace University</b>	<b>New York, NY</b>
Teaching Assistant for CS641 Mobile Web Content and Development (Angular 7, Ionic 4)	Jan 2019 – May 2019
<ul style="list-style-type: none"><li>Attend the class, troubleshoot and assist the students in their in-class exercise during the lab session.</li><li>Grade and give feedback on 29 students' Assignment every week, collect student's common mistakes.</li><li>Weekly assist more than 10 students with their assignments and questions remotely on Slack.</li><li>Created and gave a lecture(3h) about the Angular App Architecture, also made the assignment and quiz on this topic.</li></ul>	
<b>Elisabeth Haub School of Law at Pace University</b>	<b>White Plains, NY</b>
ITS Student Technician	Oct 2017 – May 2018
<ul style="list-style-type: none"><li>Assist 10+ users daily by troubleshooting and resolving technical issues on devices.</li><li>Install computers across several offices on campus to ensure functionality and connectivity to the university's domain.</li><li>Reimage Windows and Mac OS, write scripts to configure the OS, write instructions for the user and new staff.</li><li>Supervised 2 new student staff, guide them towards professional.</li></ul>	

## LEADERSHIP

<b>NUPT School of Economics and Management</b>	<b>NUPT, Nanjing, China</b>
Academic Advisor's Assistant	October 2011 – June 2015
<ul style="list-style-type: none"><li>Assisting counselors to manage 340 students, organize and coordinate all 11 monitors to complete class work.</li><li>Scheduling, directing the school activities, e.g. dances, team competitions, Graduation ceremony, spring and autumn tour.</li></ul>	

## VOLUNTEER WORK

<b>New York Chinese school at White Plains, Chinese teacher for CSL4, White Plains, NY</b>	Jan 2018 - Jun 2018
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