

Zhengming Zhou

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EDUCATION

- **Honor Bachelor of Science in Computer Science and Statistics** Sep. 2015 - Present
University of Toronto *Toronto, CA*

SKILLS

- **Languages:** Java, Python, C, C++, PostgreSQL, MongoDB, JavaScript, HTML, CSS, Verilog, Assembly, R
- **Framework & Tools:** OpenCV, Tensorflow, NLP, Pytorch, Numpy, Colab, Git, linux system, LaTeX, Excel, Rmarkdown

WORK EXPERIENCE

- **Quality Assurance Intern** May. 2016 – Aug. 2016
Developed software defined network group and implement some interfaces with Java. *iSoftstone, Nanjing, China*
Collaborated with 6 experienced developers to develop an Internet interface.
Designed the corner case for the product, wrote the report for the product.
Organized the meeting, kept track of the implementation that did not correspond to the standard.
Lower the bug rate by 5%

INDIVIDUAL PROJECTS

- **License Plate Recognizing** Jan. 2018 – Oct. 2018
A project that recognize the license on cars using computer vision and machine learning
Realize car detection with neural network with tensorflow, OpenCV and NumPy.
Implemented the license detection with open and close operations with computer graphic methods.
Implemented the Gaussian Blur Algorithm, edge detecting algorithms, photo Matting, Inpainting and SIFT algorithms.
Implemented edge detection, interest points detecting and photo matching with some open source methods.
Implemented the number detection with binary image.
Built models with neural network and train with EMINST data set.
- **Data Analysis** Jan. 2018 – Apr. 2018
A project to analysis data using R
Working alone using R to analysis the difference between various kinds of medicine and its product company.
Using different kinds of method including logistic, one-way ANOVA, two-way ANOVA, Poisson model and contingency table to make comparisons and decisions.

TEAM PROJECTS

- **Web Airdrop** Jan. 2018 – Apr. 2018
A Website for airdrop the files developed in JavaScript
Designed a website allows users to transfer files without downloading APP or using Airdrop.
Implemented with JavaScript, CSS, HTML, MongoDB and Socket.io to realize the file transfer.
Implement the front-end and back-end system, finish the function of log-in and sign-up.
Implement the database with MongoDB.
Implemented the function of file transfer between users.
- **Photo Manager** Aug. 2016 – Dec. 2016
Developed back-end and built user interface with Java
Collaborated with another developer to develop a Windows desktop application called "Photo Manager".
Implemented user interface using Java GUI.
Implemented a back-end data record system for the application.
- **Database Usage and design** Sep. 2017 – Dec. 2017
designed and used a database in PostgreSQL
Operated on database with knowledge of relational algebra. Designed a database following rules of BCNF and ER model.
Designed the schema for the database, inserted large amount of data to test the database.
Implemented a software connect to database using JDBC.
- **Network File Transfer Program** Mar. 2017 – May. 2017
Developed a file transfer program between computers with C
Implemented a program called "Server/Client Clipboard" that allows file transfer.
Implemented the client that sends file using C and TCP socket.
Implemented the server that receives file from client using C and TCP socket.