

Zhengming Zhou

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EDUCATION

- Honor Bachelor of Science in Computer Science and Statistics** Sep. 2015 - Jun. 2019
University of Toronto *Toronto, CA*

SKILLS

- Languages:** Python, JavaScript, TypeScript, HTML, CSS, Java, C++, C, PostgreSQL, MySQL, R
- Framework & Library:** Mockito, NodeJS, ReactJS, MongoDB, Groovy, Gradle, OpenCV, Tensorflow, Numpy
- Tools:** Git, Bitbucket, JIRA, AWS, Azure

WORK EXPERIENCE

- Software Developer** Nuance, Montreal, Canada
Aug. 2019 - Nov. 2019
 - Developed Voice User Interface with TypeScript.**
 - Improved the process of data flow, transformed system response from JSON to business logic.
 - Developed features to improve user experience in using Voice User Interface.
 - Added a new feature to place a call directly in VUI and GUI.
 - Standardized throw behavior of the application.
 - Refactored the feature of canceling the dialog to match the intended design.
 - Built UNIT tests for the application with ts-mockito.
 - Automated regression test cases to improve the efficiency of testing.
 - Refactored behavior of some classes with similar function and improve code quality by Builder pattern.
 - Refactored some base code to develop further features to wake up application.
 - Implemented automation tool to lint the code automatically with Gradle.
 - Updated the script to update the license with Python.
 - Implemented automation tool to generate HTML from rst file with Gradle.
 - Code Coverage raised from 80.1% to 90.3%.
- Quality Assurance Intern** iSoftstone, Nanjing, China
May. 2016 - Aug. 2016
 - Developed software defined network group and implement some interfaces with Java.**
 - Wrote coverage reports for the product.
 - Conducted automation test with Mockito and JUnit Test.
 - Tested the product with automation test and manual test.
 - Improve test delivery process and quality of products, checked Log files to analyze errors experienced during testing.
 - Raise code coverage by 5%

WORKING PROJECTS

- License Plate Recognizing** Jan. 2018 - Oct. 2018
 - A project that recognize the license on cars using computer vision and machine learning**
 - Realized 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.
- 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.
 - Implemented the front-end and back-end system, finish the function of log-in and sign-up.
 - Implemented the database with MongoDB.
- 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.