Zhengming Zhou

Github : https://github.com/SheepInWolfskin
Email : zhengming.zhou@mail.utoronto.ca
Address : 37 Grosvenor St. Toronto ON M4Y 3G5
Mobile : 647-894-3924

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
  Technologies: TypeScript, Python, Grade, TS-Mockito *Aug. 2019 – Nov. 2019*
  - Improved the process of data flow, transformed system response from JSON to business logic.
  - Developed new features and maintain existing code to improve user experience of Voice User Interface with TypeScript.
  - Refactored base code to integrate new wake-up features of GUI and VUI.
  - Improved the consistency of existing code by standardizing throw behavior of the application.
  - Refactored the feature of canceling the dialog to match the intended design.
  - Encapsulated the product with Builder pattern to help client retrieve the result directly.
  - Optimized the build process by implementing an automation tool to lint the code automatically with Gradle.
  - Implemented automation tool to generate HTML report from rst file with Gradle.
  - Updated the script to update the license with Python.
  - Wrote automated UNIT tests for the application with ts-mockito.
  - Automated regression test cases to improve the efficiency of testing.
  - Code Coverage raised from 80.1% to 90.3%.
  - Participated in peer reviews, team meetings, and discussions.
- **Quality Assurance Intern** iSoftstone, Nanjing, China
  Technologies: Java, J-Unit, Mockito *May. 2016 – Aug. 2016*
  - 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.