Jinyi Chen

https://github.com/JinyiChenUofT • Toronto, ON M5B 0B5

https://linkedin.com/in/jinyi-chen-0b608212b/ • 647-989-2621 • joeychen530@gmail.com

Self-directed and creative Software Developer with education and experience to contribute to complex and long-range company initiatives. Skilled collaborator, adept at assessing applications requirements for end-users and adding functionality to address multiple department's needs. Dedicated to fostering positive and productive work environments, providing mentorship to fellow team members while leading projects.

Software Development / Project Management / Quality Assurance
Database Development / Requirement Assessments / Agile, Scrum

TECHNICAL PROFICIENCIES

Programming Languages:	C#, C, C++, Python, Ruby, Java, Verilog, Assembly, MATLAB, HTML, CSS
Platform, Framework & Tools:	MySQL, Oracle SQL, ASP.NET Core, Postman, GIT, Amazon Web Services (AWS), REST API, Ruby on Rails, Bottle, Flask, EasyGL, Cucumber, Bootstrap, Heroku, PostgreSQL, Docker

WORK EXPERIENCE

Software Engineer (10/2019– Present)   Cox Automotive, Toronto, Canada

Technical Scope: C#, ASP.NET CORE, ORACLE SQL, MYSQL, UNIT TEST, AWS

Applied **Scrum Agile** Methodology in my work. Maintained the current system. Came up with automation solution for the present flow. Wrote **unit tests** for every feature and recommended colleagues to do the same. Participated in the design and development of a new fraud detection API.

Key Achievements:

- Assisted in architecture **microservice** design of a new fraud detection **REST API** deployed in **AWS**, and primarily developed it using **C#, ASP.NET Core, MySQL**. We already have clients' sign-off for this product.

- Assisted in the **load test, performance tuning** of the Fraud API.

- Built up a desktop-based application for administer to create, read, update, and delete the data.

- Maintaining the upgraded the current web-based application for Lender Nissan, BMW, and TD.

INTERN EXPERIENCE

Software Development Test Engineer (3/2018 – 8/2018)   Baidu, Beijing, China

Technical Scope: Shell, SQL

Partnered with development and product teams of the advertisement department to conduct the testing of 15+ web-based projects. Offered leadership to incoming interns, acting as mentor while managing the project lifecycle and providing knowledge transfer in addition to fostering a positive and productive work environment.

Key Achievements:

- Administered automatic regression testing on integration testing platforms, utilizing extensive testing experience to provide thorough results and data.
- Verified data according to the interaction of the database utilizing **Shell** and **SQL** to provide test case lists for developers, ensuring market requirement documentation.

C# Developer (10/2017 – 2/2018)   Continental, Beijing, China
Technical Scope: BitmapPallet

Collaborated with a team for the design and development of the fire monitor system. Participated in numerous successful project initiatives while developing skills in leadership and teamwork, cross department collaboration, requirements assessments, and developing custom solutions for end-users.

Key Achievements:

- Spearheaded early warning detection of fire events.
- Enabled end-users to define custom BitmapPallet by developing a tool for users to customize and apply images to the fire event.
- Launched customizable PTZ control and visualization functions for end users by constructing a mouse and keyboard hook.

UNIVERSITY PROJECT EXPERIENCE

Computer Engineering Student (9/2014 – 6/2019)   University of Toronto, Toronto, ON

Technical Scope: Python, Apache Spark, Machine Learning, Bottle, Ruby on Rails, C++

Earned a Bachelor of Applied Science in Computer Engineering participating in coursework encompassing operating systems, algorithms and data structure, databases, machine learning, networking, software engineering, programming, and probability. In addition to coursework, gained valuable experience developing leadership and project management expertise through classroom project participation.

Key Projects:

- **Lending Website**, *Ruby on Rails*: Created a responsive web-based application with user and admin interface for deployment on **Heroku**. Utilized **PostgreSQL** experience to build the database, Amazon S3 to store the images, Bootstrap for user-story design and intuitive graphical user interfaces, and **Cucumber** to accomplish behavior driven development testing. Incorporated user, item, category, borrow request, rating, and comment controllers.
- **Map Software Program**, *C++*: Organized Open-Street-Map data, building data structures and drawing Toronto's map with **EasyGL**. Enabled user interaction by adding the pan, zoom, highlight, and nearest points of interest functionalities. Applied Dijkstra's algorithm 2-opt, A*, providing the optimal path while implementing a navigation system. Discovered order and route for a set of courier deliveries, resulting in decreased travel time.
- **Big Data Housing Price Analysis**, *Python, Machine Learning*: Collected and aggregated data for 20 factors in 30 cities. Utilized **Random Forest Tree model** to train the model and produce feature importance graphs to rank factors.

EDUCATION AND TRAINING

Bachelor of Applied Science in Computer Engineering, Minor in Engineering Business
University of Toronto, Toronto, ON
Certified SAFe® 5 Practitioner Issued by Scaled Agile Inc