Bingfan Tian - Bruce Tian

LinkedIn: bingfan-tian

724 N 92nd St, Seattle, WA 98103

Email: tian.bin@northeastern.edu

Mobile: (859)957-7066

EDUCATION

Northeastern University
Seattle, WA, USA
Master of Science in Computer Science; GPA: 3.90/4.0
Sep 2021 - May 2023(Expected)

Miami University
Oxford, OH, USA
Bachelor of Science in Computer Science; GPA: 3.63/4.0
Aug 2017 - May 2021

ACADEMIC EXPERIENCE

WheelShare Routing APP
Oxford, OH, USA
Data Analytics, Backend, Java, Python
Jul 2021 - May 2021

- Implemented accessible routing and navigation system for wheelchair users based on road accessibility.
- Implemented transfer learning model using TrAdaBoost algorithm to expand vibration data collected from manual/electric wheelchair sensors, trained the model by labeling and identifying the extended data of the road image achieving 0.3 of loss value.
- Designed and implemented GraphHopper API and a Django-based backend system that supports stable navigation queries for front-end mobile apps and accessible route calculation.

CoFluences
Oxford, OH, USA
Full Stack, Java
Feb 2021 - Nov 2021

- Worked with other 3 students to develop a hybrid model to simulate the impact of a large group of people with different thinking patterns over a period of time on a specific social event.
- Implemented the front-end user interface using JavaFX, implemented the embedded Neo4j database server, and used NodeJS to visualize the Neo4j database.
- Implemented a set of runnable APIs using Java in the backend and wrote interfaces for the 8 models and algorithms provided by the Supervisor.

CarGo
Seattle, WA, USA
Full Stack, Java, MySQL, JSP
Feb 2022 - May 2022

- Designed and implemented an online used car trading web application, including user registration and login, used car sales information publish, and customer review and messaging.
- Developed web user interface using JSP and CSS, and backend service using Java and Servlet to fulfill CRUD operations on MySQL database hosting 400,000 car trade records.

TaskIt
Seattle, WA, USA
Full Stack, Java
Sep 2021 - Dec 2021

- Developed a Java application that allows users to create a task list and supports CRUD operations on user actions including clicks, drags and slides.
- Deployed a SQLite local database and used the ROOM persistent library to abstract task objects.
- Implemented unit tests with 100% code coverage using JUnit.

WORK EXPERIENCE

Baidu, Inc.
Beijing, China
Software Engineer (Internship)
May 2019 - Aug 2019

- Implemented a car trading forum based on the Baidu APP applet and its quality tests with 85% code coverage.
- Implemented the automated test scripts using JavaScript to measure the stability of the car trading forum applet after each new version release of Baidu APP with 15% testing efficiency improvement.
- Designed QA process and weekly test plans for 6 applets helping development teams spot 100+ issues during the summer internship.
- Conducted weekly regression tests for the top 50 applets with the most users after each new version of the Baidu App was launched, found and reported 50+ new issues caused by version updated, cooperated with the development team to track the fixing progress.

SKILLS SUMMARY

- **Languages**: Java, C++, HTML, CSS, JSP, JavaScript, SQL, Markdown
- **Frameworks**: Django, Flask, NodeJS, ASP.NET, JUnit
- **Tools**: Git, IntelliJ, Gradle, MySQL, SQLite, Neo4j, MongoDB
- **Platforms**: Windows, macOS, Linux, iOS, Android