

Raymond Xia

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Education

University of Waterloo | Bachelor of Applied Science in Computer Engineering

Apr 2023

Skills

Languages/Frameworks: Java, JavaScript, TypeScript, Python, Kotlin, Spring, React, Angular, Django, HTML, CSS

Tools/Technologies: Git, Docker, MySQL, PostgreSQL, Maven, Postman, Jenkins, JUnit, Selenium, Robot

Experience

Full Stack Developer | Ultimate Kronos Group (UKG)

Sep 2022 – Dec 2022

- Spearheaded a feature limiting negative time-off yearly carryover using **Angular** and **Java Spring Boot**, saving customers up to **\$12,000** yearly
- Integrated timesheet detail customization and dynamically displaying configuration options on schedules, elevating user experience for **80,000+** customers
- Implemented direct access to policy configuration pages from employee profiles, reducing edit access times by **75%**
- Investigated complex defects across **3** backends using **PostgreSQL** to simulate data transactions between services

Machine Learning Test Engineer | Trustwave

Jan 2022 – Apr 2022

- Developed **Python Robot** test suites for the training and deployment pipelines of **8** machine learning models
- Conducted regression testing in Jenkins and investigated failures using **MySQL**, **Kafka**, and **Apache Storm**, maintaining a pass rate of **98%** or higher
- Integrated continuous training modules into training pipeline, improving robustness of threat detection models by **30%**
- Reworked training pipeline to ingest data using external REST service, reducing risk of database deadlocks by **90%**
- Produced **2+** hours of content on machine learning model training and deployment to onboard new developers

Full Stack Developer | BlackBerry

Jun 2020 – Aug 2020, Jan 2021 – Apr 2021

- Designed a feature to bulk import and export blacklisted websites, apps, and developers using **React** and **Java Spring Boot**, reducing data I/O times by up to **90%**
- Devised a SQL scheduler in **Java** to routinely clean out test data in the database, saving **500+** MB of storage daily
- Extended the mobile security service test suite using **TestNG** and **Mockito**, upholding a test coverage of **98%**

Automated Test Developer | AGFA HealthCare

Sep 2019 – Dec 2019

- Composed **Selenium** unit tests for new features and upkept **JUnit** test suites to maintain **96%** test coverage
- Executed regression tests in **Jenkins** and published reports detailing causes of failures, reducing software repair times by **50%**
- Created an Include filter in **Java** to only run select tests in large test suites, reducing debugging times by up to **97%**

Test Engineer | Symbility Intersect

Sep 2018 – Dec 2018

- Pioneered iOS automated tests to replace manual testing, improving test verification speed by **90%**
- Utilized Charles to simulate backend data during manual testing, accelerating manual verification speed by **80%**
- Wrote and analyzed over **3000** test cases, ensuring reliability for applications of **30+** large client companies

Projects

SnapLapse

May 2022 – Mar 2023

- Conceived an **Android** application in **Kotlin** for users to create photo-based timelines of any location in the world
- Utilized Heroku **cloud** services to deploy the application and **PostgreSQL** to store user and location data
- Constructed **Django** API endpoints and **SQL** queries to handle data storage and retrieval for users and locations
- Designed a machine-learning location recommender algorithm in **Python** using **Pandas**, **NumPy**, and **Scikit-learn**