Raymond Xia

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Education

University of Waterloo | Bachelor of Applied Science in Computer Engineering   June 2023

Skills

Languages/Frameworks: Java, JavaScript, TypeScript, Python, Kotlin, Spring, React, Angular, Django, HTML, CSS
Tools/Technologies: MySQL, PostgreSQL, Git, Jenkins, JUnit, Selenium, Heroku

Experience

Full Stack Developer | 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 the 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