RAYMOND XIA

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Education

University of Waterloo | Bachelor of Applied Science in Computer Engineering   **Apr 2023**

Skills

Languages: Java, JavaScript/TypeScript, Python, C, C++, C#, Kotlin, Rust, HTML, CSS
Technologies: Spring, React, Angular, PostgreSQL, Django, Docker, Git, Jenkins, JUnit, TestNG, Selenium

Experience

Full Stack Developer | Ultimate Kronos Group (UKG)   **Sep 2022 – Dec 2022**
- Developed production code for **three** HR services using **Angular**, **Java Spring**, **PostgreSQL**, and **Liquibase**
- Spearheaded a feature imposing limitations on negative time-off carryovers, taking charge of **Angular** frontend development, contributing to **Java** backend design, and conducting comprehensive testing of **12** distinct use cases
- Improved **UX** by adding direct navigation to policy editors when viewing employees' policies and added timesheet detail visibility configuration using **Angular** and **Java Spring**
- Investigated complex defects spanning **multiple** services by utilizing **PostgreSQL** to spoof event message data

Machine Learning Automation Developer | Trustwave Holdings   **Jan 2022 – Apr 2022**
- Operated end-to-end **Hadoop** dataflow for security model service and wrote accompanying **Python Robot** tests
- Integrated continuous training components in security model training pipeline, improving robustness of **TensorFlow** and **Weka** threat detection models by **600%**
- Reworked training pipeline to ingest training data using **REST** service instead of congested Apache NiFi jobs, decreasing database query times during training by **50%**
- Produced in-depth instructive **guides** on security model training and deployment to onboard future developers

Full Stack Developer | BlackBerry   **Jun 2020 – Aug 2020, Jan 2021 – Apr 2021**
- Designed **Java Spring REST** routes to import and export CSV files indicating blacklisted entities in the Mobile Threat Defense database
- Created **React** components to support importing and exporting blacklisted entities in the Mobile Threat Defense **UI**
- Authored **TestNG** tests to verify import and export **REST** route behaviour, maintaining a code coverage of **95%**
- Developed a **SQL** scheduler in **Java** to routinely clean out iOS test data clogging the database
- Resolved critical defects regarding authentication, **REST** responses, and database inconsistencies

Automation Test Developer | Agfa HealthCare   **Sep 2019 – Dec 2019**
- Created a **Java** Include filter to only run select tests in a suite, **massively** improving debugging times
- Developed **JUnit Selenium** tests for new features and upkept legacy tests to maintain a code coverage of **96%**
- Managed releases in **Jenkins** and published detailed reports investigating causes of failures with potential fixes

Projects

SnapLapse
- Created an **Android** application in **Kotlin** that allows users to upload photos and create crowdsourced photographic timelines of any location in the world
- Designed a **KNN** machine-learning algorithm in **Python** to generate relevant location recommendations for users using **Pandas**, **NumPy**, and **Scikit-learn**
- Built **Django REST** routes and **PostgreSQL** queries to handle data storage and retrieval for users and locations

Spotify Top Stats
- Designed a web application to track a user's most listened-to songs on Spotify using **JavaScript** and **HTML**
- Employed **Spotify's Web API** to make **REST** calls and query for the user's listening data