

# ARGAVIN MURALITHARAN

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🌐 [www.kavinmural.github.io](http://www.kavinmural.github.io)

## EDUCATION

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### Bachelor of Computer Science [Business Option] | University of Waterloo

Expected Graduation: April 2022

**Relevant courses:** Data Structures, Algorithms, Database Management, Operating Systems, User Interfaces, OOP, Compilers, Computer Networks, Security & Privacy

## EXPERIENCE

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### Software Engineer | CognisantMD

Sept 2021 - Dec 2021 | Toronto, ON

- Developed a configurable survey link feature using **VueJS**, **Java**, **Spring** and **MongoDB**, which was used to embed custom surveys into various app views, increasing user feedback loop.
- Created a setup guide checklist feature using **VueJS**, **JavaScript**, **HTML5**, and **CSS**, improving user setup flow.
- Built and demoed features to the developer team, product managers and upper management.
- Investigated customer escalations and created tickets with proposed solutions under time constraints.

### Software Developer | Ultimate Kronos Group

Sept 2020 - Aug 2021, Jan 2020 - April 2020 | Toronto, ON

- Designed, documented, and developed back-end APIs for mobile endpoints that respect the MVC design structure using **Java**, **Spring** and **SQL**.
- Refactored code to improve performance in various API calls, decreasing the calls' execution time by 30% to 50%. Verified changes using **Gatling** test scenarios and summarized test results.
- Debugged, fixed, and tested defects using **Java**, **JUnit5** and **Mockito** under time constraints.
- Developed and demoed end-to-end features using technologies including: **Spring**, **AngularJS**, **TypeScript**, and **MySQL**.
- Involved with initiative to convert the project's **JavaScript** files to **TypeScript** for Angular migration and testing for breaking changes.
- Reviewed team members' code changes to improve code quality using **Bitbucket's** PR system.

### Software Test Engineer | Ultimate Software

May 2019 - Aug 2019 | Toronto, ON

- Designed and developed unit tests, integration tests, and regression tests using **Java** and **JUnit5** for various back-end APIs, improving code quality, integrity and test coverage.
- Developed GUI test automation scenarios using **Cypress**, increasing smoke test coverage by 60%.
- Aided in integrating the initial **Gatling** performance tests to track various API calls and setup performance scenarios.
- Refactored controller test automation to respect **Spring Security** endpoint authorization, enforcing a new team standard for controller unit tests.
- Investigated, reported and manually verified defect fixes, performance enhancements, and code refactors.

### IT Analyst & Services | Toronto Transit Commission

May 2018 - Aug 2018 | Toronto, ON

## PROJECTS

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### Stock Portfolio API

Designed and implemented CRUD APIs responsible for tracking user's stock portfolio(s) with the ability to simulate buying/selling equities. Utilized Spring MVC, Spring Security, Spring JPA and design patterns to build the app's architecture. Implemented login and API authorization for client and admin roles.

### Crypto Trading Bot

Created a cryptocurrency trading bot that uses simple trading strategies to buy and sell BTC and ETH with real-time pricing using Binance websockets. Users have the choice to paper trade or authenticate with Binance's API to make real trades. Integrated concurrency so users can specify multiple trading strategies to run in different threads.

## PROGRAMMING SKILLS

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**Technical:** Java, Python, C, C++, SQL, MongoDB, Typescript, Javascript, VueJs, ReactJs, Git, Bash