Bhavya Modi

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SKILLS

Languages: Java, Python, C, C++, C#, Elixir, HTML/CSS, SQL, Yaml, R

Tools/Frameworks: JUnit, Selenium, Mockito, JNDI, JDBC, Bash, SVN, Linux, Git, Github, Azure, CI/CD pipelines, Kafka, Docker, Kubernetes, Phoenix LiveView, Tailwind CSS

EDUCATION

University Of Waterloo, *Bachelors of Computer Science (Waterloo) and Bachelors of Business Administration (Laurier) Double Degree* Sep 2021 – 2026 | Waterloo, Canada

- Mathematical Optimization, Linear Regression, Object Oriented Programming, Algorithms and Data structures, Design patterns, Sequential Programming, Computer design, Operating Systems

PROFESSIONAL EXPERIENCE

theScore, *Software Engineering Intern* Jan 2025 – present | Toronto, Canada

- Develop and maintain software on the back office team using Elixir, Pheonix LiveView and kafka.

DayForce, *Software Developer Intern* Jan 2024 – Apr 2024 | Toronto, Canada

- Maintained and enhanced software systems responsible for facilitating tax and payment transactions between customers and tax agencies, ensuring accuracy and compliance.
- Supported and contributed to the development of a Kafka-based system as part of the Hyperscale project, which **increased data processing capacity by 60% and reduced processing time by 40%**.
- Automated database build and deployment processes using CI/CD pipelines, **reducing manual intervention by ~1 hour per deployment and minimizing deployment errors by 20%**.
- **Resolved over 200 security vulnerabilities** by addressing low-severity Veracode issues, significantly improving the security of the web application.
- Implemented and tested **input validation on web applications using regular expressions (REGEX)**, ensuring data consistency by enforcing conditions such as character types, string length, and number ranges.
- Contributed to code migration efforts by transitioning legacy repositories to Git and GitHub, optimizing version control and collaboration practices.

CMiC, *Software Engineering Intern* Jan 2023 – Apr 2023 | Toronto, Canada

- **Developed a JUnit test system that tests all JUnit test files** with the current codebase during nightly builds to ensure only high quality code is committed
- The JUnit test system allows developers to identify and debug errors by using test cases instead of error logs, **reducing debugging time by almost 90%**
- Created and modified ANT build scripts to automate the execution of JUnit tests that use regular expression (REGEX) to filter directories and test files, **improving script execution and build time by 60%**

CMiC, *Junior Software Developer* May 2022 – Aug 2022 | Toronto, Canada

- Developed over 50 test cases for SQL functions and test suite for Java code using JUnit and Mockito
- Exposure to industry standards such as standup meetings and weekly code reviews as well as **exposure to server side technologies such as JDBC and JNDI**

PROJECTS

Handwritten Text Recognition, *Python, TensorFlow* Nov 2024 – present

- Developing a program to recognize handwritten text and convert it into a digital form using neural networks.
- Learned and utilized basic Machine Learning concepts such as how neural networks work, Logistic regression and turning pixel data into images.

Pocket CPR, *Swift, React* Sep 2022

- The team developed a prototype iOS Apple Watch app at the SimpleHacks hackathon (2nd place) which assists users in performing CPR by having a timer that includes vibration, pulse animation and colours to guide users through administering safe and effective CPR