RYAN PHAM

Toronto, Ontario

https://phammings.github.io/my-portfolio/

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Education

York University | Sep. 2021 – April. 2025
Bachelor of Science in Computer Science Honours GPA: 3.44/4.00 | *Toronto, Ontario*

Experience

Explorer Hop | April 2021 – August 2021
Software Engineer Intern | *Toronto, Ontario*
- Developed HTML and CSS email templates, enhancing communication and ensuring consistent company branding.
- Utilized Selenium Python for systematic debugging, effectively identifying and resolving software glitches, which contributed to the improvement of application stability.
- Built a prototype client-facing website with JavaScript, HTML, and CSS, while integrating the Google Sheets API to enable real-time data synchronization and updates.
- Showcased effective teamwork through active participation in collaborative projects utilizing Jira for project management and using a streamlined Git workflow.

Mayfair Clubs West | October 2018 – Present
Swim Instruction Team Leader | *Toronto, Ontario*
- Managed 10+ instructors, aligning lesson plans and maintaining uniform teaching standards, resulting in improved student progress and heightened positive feedback.
- Mentored peers through workshops, refining teaching approaches, communication, and engagement, fostering a proficient and cohesive instructional team.

Projects

S&P 500 Gamma Exposure Calculator | *Python, Selenium, Shell Script* | **January 2024**
- Used Shell Script to automate the options data retrieval, gamma calculations and visualizations of the S&P 500.
- Implemented web scraping using Selenium to collect real-time options data from CBOE for accurate analysis.
- Utilized Matplotlib and Scipy libraries to calculate and visualize gamma exposure and profile of the current market.

Music Microservice API | *Java, MongoDB, Neo4j, Docker, AWS* | **December 2023**
- Led team in developing a backend Java Spotify music webservice API, integrating OOP principles and Git workflows.
- Created background logic for REST API endpoints, leveraging Spring Boot and Maven.
- Interfaced MongoDB and Neo4j (Cypher) Graph databases for real-world scenarios with CRUD operations.
- Performed automated unit testing with JUnit, Robot Framework and HTTP response testing with Postman.
- Deployed the API on an AWS EC2 instance and dockerized the application for scalability.

Todo List | *Typescript, Tailwind CSS, Firebase* | **September 2023**
- Developed a modern Todo task management website using Tailwind CSS for a responsive UI.
- Implemented Typescript to enhance code maintainability and application robustness.
- Integrated Firebase for a secure and seamless login email authentication system and user data storage.
- Utilized the Web Storage API (localStorage) for data persistence with JSON.

Technical Skills

Languages: Java, C, Python HTML/CSS, JavaScript, Typescript, NoSQL, Shell Script
Frameworks: React, Tailwind CSS, Java Spring Boot
Databases: MongoDB, Neo4j, Firebase
Technologies: Linux, GitHub, Figma, Selenium, JUnit, Postman, Robot Framework, Docker, AWS