

Vivian Yao

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EDUCATION

Queen's University

Bachelor of Computing (Honours), Specialization in Software Development

Kingston, ON

Sept. 2018 – May 2023

EDUCATION

5G VERIFICATION SOFTWARE DEVELOPER

Sept 2021 - Sept 2022

Ericsson

Ottawa

- Used Python and C# to develop a robust suite of data analysis and visualization tools, aimed at interpreting over 2,000 daily test data suites
- Implemented version control strategies and unit testing for the suite of tools created, ensuring robust, reliable, and bug-free software
- Leveraged these tools to identify patterns, trends, and anomalies, enabling data-driven decision making
- Created and maintained data reports for easy understanding of complex datasets, allowing team members to monitor performance trends effectively
- Collaborated with cross-functional teams in a modern, agile environment including regular sprint planning and daily stand-ups, contributing to the development of data-informed strategies for business improvement
- Communicated complex data findings and insights effectively to the team in both written and verbal forms, leading to continuous changes in the suite of tools
- Actively participated in continuous integration/continuous deployment (CI/CD) processes to ensure rapid deployment of updates and continuous improvement

PROGRAMMING PARADIGMS TEACHING ASSISTANT

Sept 2022 - Jan 2023

Queen's University

Kingston

- Served as an instructor for a software specification course, emphasizing the application of software behavior methodologies in software design, verification, and construction
- Led tutorial sessions and provided individual assistance to students on automata and grammar-based techniques, highlighting their practical application in scanners, parsers, user-interface dialogs, and embedded systems
- Assessed student assignments and exams, providing valuable feedback and contributing to overall grading and evaluation processes
- Fostered an environment of continuous learning and improvement, encouraging the application of constructive feedback and peer mentorship

PROJECTS

TICKET SELLER (COMPLETED) | *Python, Flask, React, PostgreSQL, Docker*

June 2020 – Present

<https://hub.docker.com/repository/docker/cisc327group42/brain-bench>

- Created and deployed an online customer-to-customer ticket selling system.
- Developed robust unit tests using Selenium for frontend and backend systems, ensuring comprehensive test coverage
- Leveraged Flask and SQLite, to enhance user experience and optimize sales operations
- Contributed to the frontend and backend codebase within a Scrum framework, driving collaborative development and continuous improvement

TECHNICAL SKILLS

Languages: Java, C#, Python, C/C++, React.js, Javascript, SQLite, Bash, Docker, Haskell, Prolog

Frameworks: Selenium, React, Flask, SQLite

Developer Tools: Git, Gerrit, Jenkins, Docker, VS Code, PyCharm, IntelliJ, Eclipse