

Mitravasu Prakash

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EXPERIENCE

Basis Technologies

Associate Software Engineer

January 2024 - Present

- Enhanced speed and coverage of the automated testing frameworks and weekly regressions to ensure high quality of the Basis Platform.

Software Engineer Intern - Automation

June 2023 - August 2023

- Developed an alternative testing framework using **JUnit5**, **Selenium**, **Java**, **OOP**, and various design patterns, resulting in increased parallel test execution and reduced test execution times.
- Migrated over 50 test cases to the new framework by refactoring existing test cases to fit the new framework, leading to over 50% reduction in testing times.

Software Engineer Intern - Demand Side Platform

June 2022 - August 2022

- Implemented bid tracking in a mock environment by utilizing **Redis** in-memory database to track spends, resulting in the mock environment more accurately simulating real-time bidding.
- Developed a **RESTful API** for debugging client ad campaigns by connecting **Kafka** messages to **Java** backend, enabling developers to filter and access messages programmatically, significantly reducing debugging time.

University of Toronto Hatchery

Software Engineer

September 2021 - December 2023

- Developed a document management tool by integrating **DocuSign API** and user databases, to streamline administration processes.
- Developed an email scheduling tool using **Vue.js**, **PHP**, and **Wordpress**, simplifying the process of scheduling and sending emails to various cohorts and startups.
- Optimized **SQL** queries to improve the performance of the administrator dashboard, resulting in 41% faster load times.

University Health Network

Software Engineer

January 2021 - August 2021

- Engineered a self-service payroll tool using web-development skills in **PHP**, **JavaScript**, and **Wordpress**, increasing process efficiency by over 50%.
- Streamlined the data collection process by developing responsive and user-friendly forms in **MS Access** using **Visual Basic** and **SQL**.
- Audited research database by writing **Python** scripts to identify errors and redundancies, reducing data errors by 31%.

PROJECTS

Analysis of Comment Reply Sentiments on Reddit

November 2023 - December 2023

- Analyzed sentiment of replies to negatively voted Reddit comments using **Jupyter Notebook**, **Pandas**, and NRC Emotion Lexicon, revealing key differences between Generalized and Specialized subreddits.

Spotify Recommendations

January 2022 - April 2022

- Developed a dashboard using **React**, **Spotify API**, **GraphQL**, and **MongoDB**, allowing users enhanced control over their music recommendations.
- Created intuitive data visualizations utilizing the user's Spotify data, allowing users to view their listening habits, preferences, and timeline of recommendations in a visually appealing manner.

EDUCATION

University of Toronto

September 2019 - December 2023

Honours Bachelor of Science, Computer Science (GPA: 3.1/4.0)

Relevant Courses: Machine Learning, Advanced Data Analysis, Network Security, Blockchains and Decentralized Applications

SKILLS

Languages/Markup	Java, Python, HTML, CSS, JavaScript, TypeScript, C, SQL, NoSQL, PHP, GraphQL, R, Solidity
Framworks/Libraries	Node.js, Express.js, React, Vue, jQuery, Bootstrap, JUnit, NumPy, Electron, Flask, Tailwind
Databases	MongoDB, MySQL, PostgreSQL, Neo4j, MS Access
Tools	Git, JIRA, Docker, WordPress, Postman, Linux, Figma, Unity, Harness