

Mitravasu Prakash

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EXPERIENCE

Basis Technologies

Associate Software Engineer - Automation

January 2024 - Present

- Developed and maintained automated test suites for the Basis Platform SAAS using Selenium, Java, and JUnit5, **boosting bug detection by 20%**.
- Automated tests for multiple critical components such as campaign pacing and tactics, **reducing manual testing time by 30%**.

University of Toronto Hatchery

Full Stack Software Engineer

September 2021 - December 2023

- Developed a document management tool by integrating DocuSign API with user databases, **improving administrative efficiency by 20%**.
- Developed an email scheduling tool with Vue.js, PHP, and WordPress, improving communication efficiency with cohorts and startups.
- Optimized SQL queries to improve the performance of the administrator dashboard, resulting in **41% faster load times**.
- Refactored application forms to **enhance modularity, ensuring consistency and reusability of code**.

Basis Technologies

Software Engineer Intern - Automation

June 2023 - August 2023

- Developed an alternative UI testing framework using JUnit5, Selenium, Java, OOP, and various design patterns, resulting in **increased parallel test execution and reduced test execution times**.
- Migrated 50+ test cases to a new framework, **cutting testing times by over 50% and significantly boosting efficiency**.

Basis Technologies

Software Engineer Intern - Demand Side Platform

June 2022 - August 2022

- Implemented bid tracking in a mock environment using Redis in-memory database, enhancing the accuracy of the real-time bidding simulation.
- Developed a RESTful API to debug client ad campaigns, connecting Kafka messages to a Java backend for **streamlined, programmatic access, significantly reducing debugging time**.

University Health Network

Full Stack 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%**.
- Developed responsive and user-friendly forms in MS Access using Visual Basic and SQL to **streamline the data collection process**.
- Created Python scripts to audit the research database, **reducing data errors by 31%**.

PROJECTS

TalkLab

April 2024 - Present

OpenAI, React, Firebase, GCP, Vite, UI, UX Design, Code Reviews, Agile

- Developed a tool for researchers to collect data to fine-tune large language models and study user interaction with chatbots
- Built an AI chatbot to help students with social anxiety by fine-tuning GPT-3 with custom training data using the OpenAI API
- Integrated an AI voice agent with the chatbot to allow users to converse naturally with the chatbot.

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, System Design, Blockchains and Decentralized Applications

SKILLS

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