# Mitravasu Prakash

**Software Engineer | University of Toronto Hatchery** 

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#### **SKILLS**

- · Languages: Java, Python, HTML, CSS, JavaScript, C, SQL, PHP, GraphQL
- Framworks and Libraries: Node.js, Express.js, React, Vue, jQuery, Bootstrap, JUnit, NumPy, Electron, Flask, Tailwind
- Databases: MongoDB, MySQL, PostgreSQL, Neo4j, MS Access
- Tools and Technologies: Git, JIRA, Docker, WordPress, NetlifyCMS, Postman, Linux, Figma, Adobe XD

### **EDUCATION**

**University of Toronto** 

**September 2019 - June 2023** 

Honours Bachelor of Science, Statistics Co-op (CGPA: 3.23)

**Specialization in Machine Learning and Data Mining** 

Relevant Courses: Software Engineering, Databases, Data Structures and Algorithms, Machine Learning, Web Applications, Assembly

#### **WORK EXPERIENCE**

**Software Engineer (Backend)** 

June 2022 - September 2022

**Basis Technologies** 

Software Engineer

September 2021 - Present

**University of Toronto Hatchery** 

Tech Stack: PHP, SQL, JavaScript, jQuery, AJAX, Wordpress, Tailwind

- Developed a portal that allows administrators to schedule automatic emails sent to different startups
- Designed SQL queries and schemas to streamline the automatic email management process

**Software Engineer** 

**January 2021 - August 2021** 

#### **University Health Network**

Tech Stack: PHP, SQL, JavaScript, Wordpress, MS Access, Visual Basic, Python

- Developed a payroll portal used by 50 employees bi-weekly to submit their work hours
- Implemented automatic reminder and summary emails to add transparency between employees and their project managers
- Reduced database redundancies by 31% by conducting audits and normalizing research data in a MS Access database

#### **□** PROJECTS

## **Analysis of Stock Market Fluctuations**

November 2021 - December 2021

Tech Stack: Python, Scikit-Learn, Matplotlib, Pandas, NumPy, Jupyter Notebooks

- Developed multiple regression models using the CBOE Volatility Index historical dataset from 1990 to 2021
- Identified key factors affecting fluctuations in the Stock Market by analyzing regression models
- Classified the CBOE Volatility Index historical dataset into 5 different regimes and predicted the likelihood of the stock market to switch between regimes.

AfriConnect

May 2021 - September 2021

☑ africonnect.netlify.app

**Tech Stack:** React, Express.js, Node.js, JavaScript, Bootstrap, MongoDB

- · Worked with an **Agile Scrum** team to develop an e-learning web-app for the African Impact Initiative
- Used **JIRA** to help track the progress of the project and distribute tasks effectively.
- Designed the **REST API** to store, update and access user information securely.
- Designed front-end interfaces for users to modify their profile information and view information about other users

Rideshare API July 2021 - August 2021

Tech Stack: Java, Docker, Neo4j, MongoDB, PostgreSQL

- Developed a REST API following the Microservice architecture that allows developers to access information about all trips
- Wrote **JUnit** tests to eliminate manual testing of all endpoints.