

Rashik Shahjahan

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Skills

Languages Python, Java, C, C#, C++, JavaScript, PHP, Go
Technologies Git, PostgreSQL, Linux, Redis, AWS, GCP, MongoDB, RabbitMQ

Experience

nference

SOFTWARE ENGINEER

Toronto, Ontario

January 2022 - Present

- Led a team of **3** engineers to build a metrics monitoring system deployed across **250+** machines using **Python**, **RabbitMQ**, **InfluxDB** and **FastAPI**.
- Coordinated cross-departmental management of **20+** services using a centralized tool, simplifying monitoring and recovery from failures.
- Enhanced query speeds by **4x** through enabling **MongoDB** sharding on a **Node.js** application.
- Achieved **4x** codebase reduction and eased future additions through optimization of a data transfer service using **Python** and **FastAPI**.
- Developed a **Python** and **Flask** health monitoring system for distributed applications, leading to a **30x** decrease in downtime.
- Improved data processing throughput by **7x** by redesigning a distributed pipeline using **Python** and **Ray**.
- Improved query performance by **20x** by leading a database migration project from **Redis** to **PostgreSQL**.

Thrivr Inc.

SOFTWARE DEVELOPER

Remote, Canada

August 2021 - December 2021

- Enhanced user experience by integrating Google Maps into the website using **React**.
- Improved user accessibility and convenience by adding cross-platform calendar links to automated emails through **Laravel**.

CloudConstable Inc.

SOFTWARE DEVELOPER(CONTRACT)

Toronto, Ontario

June 2021 - August 2021

- Increased fever detection accuracy by **70%** by implementing a computer vision algorithm with **C++** and **OpenCV**.
- Developed a voice-controlled **UI** for a **Unity** app, reducing the virus spread rate by **90%**.
- Enhanced the solution's user interaction range by **3x** by developing a face-tracking camera system using **Unity**.

Mannlab

RESEARCH INTERN

Toronto, Ontario

May 2020 - September 2020

- Achieved over **80%** accuracy in developing an EEG-based auditory attention detection system using **Tensorflow**.

Adlib Software

DEVOPS CO-OP

Burlington, Ontario

September 2019 - December 2019

- Automated the auditing and remediation of windows and SQL server security benchmarks with **Inspec** and **Ansible**.

Mighty Egg Technologies

SOFTWARE ENGINEERING INTERN

Toronto, Ontario

May 2018 - September 2018

- Wrote a serverless **Node.js** back-end for a Facebook Messenger bot.

Patents

Method and System for Determining Relationships Between Linguistic Entities - US-20230143418-A1

nference, Toronto, Ontario

CO-INVENTOR(PENDING)

2022-11-04

- Developed an innovative method and system for analyzing and classifying relationships between tokens in a text corpus.

Education

McMaster University

BACHELOR OF ENGINEERING IN ENGINEERING PHYSICS CO-OP

Hamilton, Ontario

2016 - 2021