

Rashik Shahjahan

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🌐 RashikShahjahan

Skills

Languages Python, Java, C, C#, C++, JavaScript, PHP, Go

Technologies Git, PostgreSQL, Linux, Redis, AWS, GCP, MongoDB, RabbitMQ

Experience

🔗 inference

Toronto, Ontario

SOFTWARE ENGINEER

January 2022 - February 2024

- Led a team of **3** engineers to develop and deploy a Python-based metrics monitoring system across **250+** machines using **RabbitMQ**, **InfluxDB** and **FastAPI**, resulting in **50%** improvement in system availability.
- Optimized database performance of a high-traffic **Node.js** application by implementing **MongoDB** sharding, resulting in **20x** faster query speeds and enhancing user response times.
- Engineered a health monitoring system using **Python** and **Flask** for distributed applications, reducing system downtime by **30x** by implementing efficient error detection and recovery mechanisms.
- Redesigned distributed NLP pipeline using **Python** and **Ray**, making queries upto **1800x** faster.
- Led a database migration from **Redis** to **PostgreSQL**, enhancing query performance by **20x**.

🔗 Thrivr Inc.

Remote, Canada

SOFTWARE DEVELOPER

August 2021 - December 2021

- Enhanced user experience by integrating Google Maps into the website using **React**.

🔗 CloudConstable Inc.

Toronto, Ontario

SOFTWARE DEVELOPER(CONTRACT)

June 2021 - August 2021

- Increased fever detection accuracy by **70%** by implementing a computer vision algorithm with **C++** and **OpenCV**.

🔗 Mannlab

Toronto, Ontario

RESEARCH INTERN

May 2020 - September 2020

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

🔗 Adlib Software

Burlington, Ontario

DEVOPS CO-OP

September 2019 - December 2019

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

🔗 Mighty Egg Technologies

Toronto, Ontario

SOFTWARE ENGINEERING INTERN

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

inference, Toronto, Ontario

Entities - US-20230143418-A1

CO-INVENTOR(PENDING)

2022-11-04

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

🔗 Mistral-Instruct-Bangla

FOUNDER

2023-01-11

- Finetuned the **Mistral-7B-Instruct-v0.2** model to support conversational and instructional tasks in Bengali, achieving significant user engagement with **114** monthly downloads.

Education

McMaster University

Hamilton, Ontario

BACHELOR OF ENGINEERING IN ENGINEERING PHYSICS CO-OP

2016 - 2021