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
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.
- Managed **20+** services across departments using a centralized tool, reducing system downtime by **20%** and improving recovery speed from failures.
- 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.
- Optimized data transfer service using **Python** and **FastAPI**, resulting in **4x** codebase reduction, improved reliability, and simplified future enhancements.
- 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 pipeline using **Python** and **Ray**, enhancing data processing throughput by **7x**.
- 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**.
- 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
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 Entities - US-2023143418-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
Hamilton, Ontario
BACHELOR OF ENGINEERING IN ENGINEERING PHYSICS CO-OP — 2016 - 2021