

Rashik Shahjahan

✉ rashikshahjahan@protonmail.com

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🌐 RashikShahjahan

Skills

Languages Python, Java, C, C#, C++, JavaScript, Typescript, Go, Rust, CSS

Technologies React, PostgreSQL, Redis, AWS, GCP, MongoDB, RabbitMQ, pgvector, Pytorch, Kubernetes

Experience

🔗 Fractal Tech

New York, New York

SOFTWARE ENGINEER

September 2024 - December 2024

- Developed an AI-powered art generation platform using **React**, **TypeScript**, and **Express**, incorporating secure **Python** code execution, **pgvector** for vector similarity search, and **LLM**-based code generation. [Demo available here](#).
- Built over **40 full-stack applications** as part of a rigorous **56-hour-per-week** training program, focusing on end-to-end development with modern frameworks.
- Collaborated with [Gridify](#) to deliver a **React**-based MVP in just **three weeks**, meeting tight deadlines and contributing to a functional product prototype.

🔗 nference

Toronto, Ontario

SOFTWARE ENGINEER

January 2022 - February 2024

- Led a team of **3** engineers to build a metrics monitoring system for **250+** machines using **RabbitMQ**, **InfluxDB**, and **FastAPI**, reducing downtime incidents by **50%**.
- Optimized a high-traffic **Node.js** application by implementing **MongoDB** sharding, reducing response times by **20x**.
- Built a health monitoring system with **Python**, cutting application downtime by **30x** through automated error detection and recovery.
- Redesigned an NLP pipeline with **Python** and **Ray**, achieving **1800x** faster query processing by optimizing workflows through asynchronous operations.
- Directed a migration from **Redis** to **PostgreSQL**, boosting query efficiency by **20x** and ensuring seamless handling of high-volume data.

🔗 Thrivr Inc.

Remote, Canada

SOFTWARE DEVELOPER

August 2021 - December 2021

- Enabled a seamless booking experience by integrating **Google Maps** into a **React** application.

🔗 CloudConstable Inc.

Toronto, Ontario

SOFTWARE DEVELOPER (CONTRACT)

June 2021 - August 2021

- Enhanced fever detection accuracy by **70%** by designing a computer vision algorithm using **C++** and **OpenCV**.

🔗 Mannlab

Toronto, Ontario

RESEARCH INTERN

May 2020 - September 2020

- Designed and implemented an EEG-based auditory attention detection system using **CNNs** and **SVMs**

🔗 Adlib Software

Burlington, Ontario

DEVOPS CO-OP

September 2019 - December 2019

- Automated Windows and SQL Server security benchmarks audits, enhancing operational efficiency.

🔗 Mighty Egg Technologies

Toronto, Ontario

SOFTWARE ENGINEERING INTERN

May 2018 - September 2018

- Developed a serverless **Node.js** chatbot using **AWS Lambda**, enabling efficient automation of regular surveys.

Patents

🔗 Method and System for Determining Relationships Between Linguistic

nference, Toronto, Ontario

Entities - US-20230143418-A1

CO-INVENTOR(PENDING)

2022-11-04

- Built a system to convert text corpora into dependency trees, enabling faster relationship classification between entities.

Education

McMaster University

Hamilton, Ontario

BACHELOR OF ENGINEERING IN ENGINEERING PHYSICS CO-OP

2016 - 2021