

# Rashik Shahjahan

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🌐 RashikShahjahan

## Technical Skills

|                                  |  |
|----------------------------------|--|
| <b>Programming Languages</b>     | Python, JavaScript, TypeScript, Go, Rust, Java, C, C#, C++                             |
| <b>Machine Learning &amp; AI</b> | PyTorch, TensorFlow, spaCy, Transformers, pgvector, RAG, Dask, Ray, numpy              |
| <b>Server Technologies</b>       | PostgreSQL, MySQL, Redis, MongoDB, InfluxDB, RabbitMQ, Express, FastAPI, Flask, Django |
| <b>Web Development</b>           | React, Next.js, Tailwind CSS, DaisyUI, Material-UI, Zod, StoryBook, Clerk              |
| <b>DevOps &amp; Cloud</b>        | Kubernetes, Docker, AWS, GCP, Ansible, Grafana   |

## Experience

### 🔗 Gridify

SOFTWARE ENGINEER

Toronto, Ontario

March 2025 - Present

- Led development, architecture, and deployment of a marketplace website, scaling it from **0 to 40K USD** in transactions using **FastAPI**, **React**, **PostgreSQL**, and **GCP**.

### 🔗 nference

SOFTWARE ENGINEER

Toronto, Ontario

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 a ML pipeline using **Ray**, reducing query times from 30 minutes to real-time by offloading computation to an asynchronous preprocessing step.
- Directed a migration from **Redis** to **PostgreSQL**, boosting query efficiency by **20x** and ensuring seamless handling of high-volume data.

### 🔗 Thrivr Inc.

SOFTWARE DEVELOPER

Remote, Canada

August 2021 - December 2021

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

### 🔗 CloudConstable Inc.

SOFTWARE DEVELOPER

Toronto, Ontario

June 2021 - August 2021

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

### 🔗 Mannlab

RESEARCH INTERN

Toronto, Ontario

May 2020 - September 2020

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

### 🔗 Adlib Software

DEVOPS CO-OP

Burlington, Ontario

September 2019 - December 2019

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

### 🔗 Mighty Egg Technologies

SOFTWARE ENGINEERING INTERN

Toronto, Ontario

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 Entities - US-20230143418-A1

nference, Toronto, Ontario

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

BACHELOR OF ENGINEERING IN ENGINEERING PHYSICS CO-OP

Hamilton, Ontario

2016 - 2021