

# Sourish Das

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## EDUCATION

### University of Waterloo

Waterloo, Canada

Honours Bachelor of Computer Science (Co-op)

April 2027

- **Relevant Coursework:** OOP, Data Structures, Algorithms, Linux, Compilers, Computer Architecture, OS, Assembly

## TECHNICAL SKILLS

**Languages:** Python, Java, TypeScript, JavaScript, C/C++ , Ruby, Golang, Kotlin, SQL, HTML/CSS, Bash

**Databases:** PostgreSQL, MySQL, MongoDB, Firebase, Redis, Milvus, Pinecone

**Frameworks:** Node.js, NestJS, Spring, FastAPI, Rails, Flask, React, gRPC, GraphQL, Redux, FastAPI, Rails

**Libraries:** Pytorch, pandas, NumPy, Matplotlib, scikit-learn, OpenCV, PySpark, Tensorflow, LangChain, Airflow

**Technologies:** Docker, AWS, Azure, Kubernetes, Jenkins, Git, Airflow, Terraform

## EXPERIENCE

### StackAdapt

May 2025 - August 2025

Software Engineer Intern

Toronto, Canada

- Updated **Vitess** serializer to parse new fields, launching a new audience type to **200+** clients and raising adoption **20%**
- Launched predictive modeling, boosting new audience adoption by **15%** and accuracy by **23%** using **Go** & **PostgreSQL**
- Optimized **GraphQL** queries with **Prometheus**, **Loki** & **Grafana**, cutting backend load by **10%+** on **1M+** daily requests
- Enabled **5x** faster data pipeline throughput by building a background job processing pipeline in **Rails** with **Sidekiq** & **S3**

### Boosted.ai

January 2025 - April 2025

Software Engineer Intern

Toronto, Canada

- Built a web crawler using **Python** & **Playwright** for **100+** sites, reducing data collection time by **90%+** across workflows
- Reduced storage costs by **40%+** and accelerated data retrieval by **15%** through storage of values in **NumPy** cubes on **S3**
- Achieved **50%+** reduction in portfolio analysis response latency by parallelizing RPCs with **asyncio-based** concurrency
- Enabled monetization of **300+** datasets across **100+** clients by building an access control system using **Casbin**, **Redis**

### Givver

September 2024 - December 2024

Software Engineer

London, UK

- Built a secure internal document storage system with **TypeScript**, **NestJS**, and **S3**, increasing user engagement by **5%+**
- Engineered an AI-powered pipeline with **Python** & **SQL** to process **25+ GB** of daily data for real-time document insights

### Manulife

January 2024 - April 2024

Data Engineer Intern

Toronto, Canada

- Optimized **CI/CD** pipelines in **Azure DevOps**, improving release efficiency by **20%+** through early failure detection
- Effected a **15%** reduction in the team's infrastructure costs by leveraging **Docker** to package and deploy **Python** apps
- Enhanced system scalability by designing **Airflow DAGs** to migrate **2 GB** of custom data from **PostgreSQL** to **MongoDB**

### Baraka (YCombinator '21)

May 2023 - August 2023

Software Engineer Intern

Dubai, UAE

- Increased total search requests by **17%+** by implementing a semantic search feature using **OpenAI API** & **Milvus DB**
- Led the efforts to reduce semantic search latency by **60%+**, using **Meilisearch** & **NNS** for low-latency vector retrieval
- Saved **\$10k/month** by replacing a subscription with an **ETL pipeline** for computing financial metrics using **Python**, **SQL**
- Designed a fraud detection microservice for **25k+** accounts using **Java**, **Spring Boot**, and **EC2** for real-time monitoring

## ACTIVITIES

### UW Quantitative Finance Design Team

May 2023 - January 2025

Software Engineer

Waterloo, Canada

- Co-led the creation of a quant finance LLM using **PyTorch**, enabling strategy simulation and market insights generation
- Enhanced trading strategy performance by **15%+** via a robust back-testing engine using **Python**, **NumPy**, **Scikit-learn**

## PROJECTS

### Snowmail | Kotlin, Ktor, OpenAI API, JavaMail, PostgreSQL, Compose

- Designed a desktop app with **50+** users to automate personalized recruiter outreach, reducing manual effort by **75%+**
- Boosted recruiter response rates by **20%+** by fine-tuning the latest **OpenAI** chat completion model for targeted outreach

### RepMe | Python, OpenCV, Mediapipe, Flask, MongoDB, ReactJS, TailwindCSS

- Implemented image processing to accurately track reps of **5+** exercises in video streams using **OpenCV**, **MediaPipe**