

Arafat Khan

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EDUCATION

INDIAN INSTITUTE OF
TECHNOLOGY, KHARAGPUR

BACHELORS AND MASTERS
OF TECHNOLOGY
2014-2019

COURSEWORK

Probability
Algorithms
Programming Languages
Introduction to Electronics
Stochastic Processes
Machine Learning
Operating Systems
Distributed Systems

LINKS

Medium Blog:// [Arafatkatze](#)
Github:// [Arafatkatze](#)
Linkedin:// [Arafatkatze](#)
Website:// [Arafatkatze](#)
Email: [Link](#)
Phone: +1-343-999-5219

PROGRAMMING

- Python • Ruby
- Rails • Matlab • Go

CLOUD

- AWS • GCP
- Compute Canada
- Terraform • Kubernetes
- Databases(Mysql, Mongo)
- Percona • Chef
- Datadog • Grafana

HOBBIES

- Skiing/Snowboarding
- Travelling (20+ Countries)
- Hiking
- Reading/ Writing
- Philosophy

PROFESSIONAL EXPERIENCE

IMMIGRANTFIRST | CoFOUNDER

| March 2023 - August 2023 | San Fransisco, USA

- Built a state of the Art LLM framework to build O1 Visa applications for US immigration using Generative AI. ([Link](#))

SHOPIFY

| Backend Developer (2 years) | Devops Engineer (2 years)

| May 2019 - May 2023 | Remote Canada

- Built a major tech design for a technical pipeline touching multiple rails services to find major bottlenecks in Shopify's fraud assessment flow and to improve the checkout latency by 60%.
- Co-Implemented a load balancer level splitting of read and write requests using Kubernetes for Shopify's financial transaction application which improved the p99 request times across most of Shopify's payment transactions by 50%.
- Enhanced networking/infra pipeline to make our payments infrastructure fully compliant with PCI/DSS regulations to pass the audit.
- Built, maintained and upgraded highly scalable, fault tolerant Mysql database for critical credit card data
- Managed autoscaling for Black Friday sales as the traffic spiked 10x the normal limit

SIMON FRASER UNIVERSITY | SUMMER RESEARCH INTERN

| May-July, 2017 | May - July 2018 | Vancouver, Canada

- Improved CT Segmentation software to label fat segments in human body for cancer research. Deployed on Cedar(Top 100 Most powerful super computers of the world).

OPEN SOURCE PROJECTS

- Google Summer of Code -> Built Matplotlib for ruby([Github](#))
- Cody -> Improved Cody the AI assisted coding editor with many optimizations ([Link](#))
- Glot -> Built the on plotting library for Golang, inspired by GNU plot ([Link](#))
- Dataviz -> Built the most popular data-structure visuals library for Golang ([Link](#))
- Epson API(Contract work) -> Built an API for Epson printers ([Github Org](#))

TECH CONFERENCE SPEAKING ENGAGEMENT

2022 Devopsdays Recife, Brazil on Remote work
2020 Google Developers group Windsor, Canada on Tensorflow
2019 Golang Visualizations at Gophercon India
2018 Tensorflow Ruby at Ruby on Ice at Tegernsee, Germany
2018 Golang Visualizations at Goway Fest Belarus
2017 Tensorflow Ruby at the Annual European Ruby Conference

AWARDS AND ACHIEVEMENTS

2023 Won various Hackathons for ImmigrantFirst(5000\$+ prizes from **Anthropic AI** /Epson)
2021 Lived at a ski resort for 2 months for the love of skiing and ski culture
2018 Technical blog crossed 150k views on **Medium**
2018 Awarded a 500K Yen **Ruby grant** to work on a ML project with Ruby association
2014 Ranked 4337 in IIT Joint Entrance Examination out of 1.5 million students