

Preet Makani

pmakani@uwaterloo.ca • linkedin/pmakani • github.com/preetmakani • 905-699-0748

Languages JavaScript • Python • Java • TypeScript • C++ • SQL • C++ • Go • Terraform
Frameworks Node.js • Flask • Kafka • GraphQL • Socket.IO •
Tools Git • Redis • Docker • Kubernetes • PostgreSQL • MySQL • GCP • AWS (RDS, S3) • Chai

EXPERIENCE

Cohere AI

San Francisco, CA

Software Engineer Intern

Sept 2022 – Dec 2022

- Built and sustained current software **infrastructure** and developed an on-call program using PagerDuty, New relic, and GCP
- Increased user traffic by **10%** by implementing and maintaining **co.summarize** endpoint that uses large language models
- Developed the ability to store prompt presents in our API using **Go, Python**, and **PostgreSQL** reducing user input tokens
- Improved code delivery by **15%** from overhauling continuous integration (CI) and continuous delivery (CD) pipelines
- Leveraged **GCP** and **Terraform** to create first iteration of seed project architecture with **SOC2** compliance and security

Prodigy

Toronto, ON

Software Engineer Intern

Jan 2022 – Apr 2022

- Designed, developed, and tested backend **microservices** and **infrastructure** to make learning enjoyable through games
- Spearheaded development of Mailer, a mailing service, which generated **\$120k** and increased client conversion rate by **8%**
- Integrated **GraphQL** queries and corresponding services using NestJS to securely store character data for **250k** users
- Reduced database cost by **15%** and expanded throughput by **6x** by implementing cache-aside **caching** leveraging webpack
- Collaboratively directed investigations to analyze technical dept and develop new growth priorities for backend services

OpenText

Toronto, ON

Software Engineer Intern

May 2021 – Aug 2021

- Securely migrated upwards of **3 million** user files through decrypting and encrypting with newly generated user keys
- Utilized JavaScript and Angular to implement feature flag functionality by experimenting various features on **40K+ users**
- Resolved mass customer issues by investigating data discrepancies in PostgreSQL and Postman to sleuth users' APIs
- Developed and deployed a system which is responsible for Tenant Encryption and Decryption of files using **Kafka** and **AWS**
- Created comprehensive test suites using Mocha and Chai to reduce intermittent issues by **~35%**, improved quality of code

Westend

Toronto, ON

Software Developer

May 2020 – Aug 2020

- Increased sales by **25%** by providing online checkout option as a solution to reduce in person traffic for COVID-19
- Rearchitected and built **Node.js** backend API, handling CRUD operations and managed request, routing, and responses
- Created **EzPay**, an online checkout option that makes small business's capable to execute online orders
- Organized development team to utilize **Flask** as a web-framework to execute database queries

PROJECTS

ChatBox

May 2020 – Jun 2021

- Architected and built a web application using **socket.io** to communicate between multiple clients and server
- Leveraged **Material-UI** capabilities and **React** to efficiently construct the user interface
- Deployed Node.js, Express, and Socket.IO web server on Heroku to forward incoming commands in real-time

EDUCATION

Bachelor of Software Engineering – GPA: 4.0

Waterloo, ON

University of Waterloo