# **Efkan Serhat Goktepe**

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#### **Education**

## University of Toronto, HBSc Co-op Computer Science

Sep 2019 - May 2024

Awards: Dean's List of Academic Excellence, University of Toronto Scholar

#### **Skills**

Languages: Python, C++, Ruby, Java, JavaScript, Haskell, SQL

Tools: Azure/AWS/IBM Cloud/GCP, SQL/NoSQL, Git, Docker, Kubernetes, Rails, React, Typescript, LLMs

Concepts: REST/GraphQL APIs, CI/CD, Database Design, Cloud Architecture, MVC, Microservices

## **Experience**

#### Software Developer Intern, IBM, Toronto, ON

May 2023 - Dec 2023

- Developed LMS/CMS integrations, back-end optimizations, security patches, configurability features, and bug fixes under IBM Skills Network for their products Portals and Author Workbench with 7M+ users
- Migrated <u>Portals</u> from Rails 6 to Rails 7 and built a subsequent CI/CD pipeline with RSpec and GitHub Actions
- Created an automated deployment solution with Python, GitHub API, and IBM Cloud API that reduced the
  average deployment time from 10 minutes to roughly 2 minutes and was used 200+ times per day
- Made open-source contributions to 4 Generative AI tools: langchain, NeMo-Guardrails, LlamaIndex, guardrails-ai
- Tools: Python, Ruby on Rails, Typescript, MongoDB, PostgreSQL, Docker, Kubernetes, IBM Cloud

## Full-Stack Developer Intern, Alphabyte Solutions, Toronto, ON

May 2021 – May 2023

- Worked full-time 40h/week between May-Dec 2021 and part-time 20h/week from Jan 2022 onwards
- Used **Python** to build and automate scalable data pipelines for **10+** clients worth **\$400M USD** in total
- Deployed to and managed production servers for each client via AWS (EC2, RDS, S3, Lambda) or Azure
- Developed triggers to upscale and downscale cloud resources via AWS/Azure CLI on an ad-hoc basis, shortening
  job completion times by ~40% and saving over \$10,000/month in cloud costs across all clients
- Engineered a batch processing solution that decoupled sequential CRON jobs on an AWS EC2 instance allowing them to run in parallel and reducing pipeline completion time from 2 hours to 15 minutes
- Built and maintained internal dashboards for 24 clients with MVC architecture using .NET and C#
- Created web scrapers for 40+ data source websites as well as automated alerts for HTML changes
- Tools: Python, C#, .NET, SQL Server, MySQL, Azure, AWS

### **Projects**

## co:ngress (1st Place Winner @ Hack the Valley 2022)

(Devpost) (Github)

- Used Cohere API & Wombo API to build an app that summarizes parliamentary transcripts, fetches an AIgenerated cover image, and compiles them in a webpage
- Tools: Python, Django, React, SQLite

#### **Goodroom** (1<sup>st</sup> Place in Voiceflow API Challenge @ Hack the North 2022)

(Devpost) (Github)

- Built an intelligent room service bot for hotels using Voiceflow API and Telegram API
- Tools: Python, Node, JavaScript

## **GithubGuide** (Most Creative Use of GitHub @ DeerHacks 2023)

(Devpost) (GitHub)

- Developed a project using the GPT-4 model via OpenAI API to make reading open-source repos easier!
- Tools: Python, JavaScript, LlamaIndex

#### pyircd

(Demo) (Github)

Built an IRC server in Python that is fully compliant with RFC 2812 and RFC 1459