

# 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 [Portals](#) 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** (*1<sup>st</sup> Place Winner @ Hack the Valley 2022*)

[\(Devpost\)](#) [\(Github\)](#)

- Used Cohere API & Wombo API to build an app that summarizes parliamentary transcripts, fetches an AI-generated 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](#)