

Vaansh Lakhwara

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SKILLS

Programming Proficient Python, Java, C#, HTML, Markdown Familiar Bash, Go, CSS, JavaScript/Typescript, C++
Other Agile, Git, Unix, CI/CD, Apache Spark, Docker, Selenium, AWS, Azure, LATEX, .NET 6, Swagger

EDUCATION

Concordia University (Co-op) – Montreal, QC Sep 2019 – Present
Bachelor of Science, Computer Science
Courses: Data Structures & Algorithms, Big Data Analytics, Web Development, Object Oriented, Databases and AI/ML.

EXPERIENCE

Morgan Stanley – Montreal, QC. Jan 2023 – Apr 2023
Technology Analyst (Institutional Securities Division)
Tech Stack Java, Spring Boot, Sybase SQL Database, Git, Jira, Swagger, Internal Tools

dcbel Inc. – Montreal, QC. May 2022 – Aug 2022
Full Stack Developer Intern (IoT Cloud Platform)
Tech Stack C#, .Net Framework, Web API, Git, Azure DevOps, CI/CD pipelines, Microsoft ServiceFabric

- Worked closely in an **agile driven team** to deliver **user stories** for a distributed energy resources management system as a cloud solution (**IaaS**) powering a home energy station supporting **bidirectional DC EV charging**.
- Developed **API and communication protocols** between connected devices and the Chorus **IoT Cloud** platform consuming static data from **Azure Table Storage** with unit and system tests written using **Moq and xUnit**.
- Actively participated in DevOps improvement initiatives and the evolution of Agile practices – daily **scrum**, weekly **grooming**, biweekly **retrospective** and **sprint review** meetings as well as peer design and code reviews.

Genetec Inc. – Montreal, QC. Sep 2021 – Dec 2021
Software Developer Intern (Identity & Access Management)
Tech Stack (IoT) React TS Web, C#, Node, REST APIs, TypeScript, MongoDB, Azure Microservices

- Developed, tested and integrated **react based, mobile ready UI features** to enable customers worldwide perform various physical identity and access management system (**SaaS**) operations seamlessly.
- Implemented a **cache model** in a service with **Azure Table Storage** to provide shared data to multiple instances.
- Built, tested and integrated over **.NET based service APIs** using FakeItEasy and FluentAssertions libraries.
- Occasionally cultivated **process improvements as a kanban board mediator** in Azure DevOps Kanban to increase developer productivity, improve clarity, speed of communication and resolving dependencies ahead of time.

PROJECTS

Stock Forecasting (Machine Learning with *Python, PyTorch, Yahoo Finance*)
Implemented a stock forecasting model with **Convolution Neural Networks (CNNs)** using a dataset of S&P 500 stocks.

.NET 5 REST API Catalog (API Development with *.NET 5, Postman, MVC, MongoDB, RESTful APIs, Docker*)
Built a MongoDB (NoSQL) repository, **tested CRUD endpoints** with Postman **and published the docker image**.

Reddit to Instagram (Automation with *Reddit API, Pillow, Web Selenium AppleScript, Pyautogui, AWS*)
Automated workflows for social media, run on **EC2 instances** to maintain pages with **45k followers** on Instagram.

Movie Profitability Prediction (Big Data Analytics with *PySpark, Jupyter Notebook*)
Worked in a team of 4 on a **Random Forest** and **Logistic Regression** model based on a combination of 3 Kaggle datasets.

Toy Compiler (Compiler Design with *Python, Vscod*)
Wrote a compiler complete with **lexical, syntactic** and **semantic** analyzers complete with abstract syntax tree generation.