

FARAZ NASEEM

☎ 519-987-4820

✉ naseemf@uwindsor.ca

🌐 [linkedin.com/in/faraznaseem](https://www.linkedin.com/in/faraznaseem)

🐙 github.com/farazn019

Education

University Of Windsor

September 2019 – April 2024

Bachelor Of Computer Science (Honours) Concentration In Software Engineering

Windsor, Ontario, Canada

GPA: 78% (3.20 / 4.0)

Sample Coursework: Software Engineering, Database Management Systems, Computer Networks, Operating Systems, Data Structures and Algorithms, Object Oriented Software Analysis and Design

Skills

Languages: Python, Java, JavaScript, C#, C++, SQL, HTML, CSS, Sass, Bash

Libraries/Frameworks: Node.js, React.js, Express.js, Spring Boot, FastAPI, Flask, jQuery, Jest, Selenium

Databases: Redis, PostgreSQL, MongoDB, MySQL, Cassandra, CosmosDB, Oracle SQL

Developer Tools: Power BI, Tableau, Docker, Kubernetes, Jenkins, Maven, Postman, Tomcat, Git, Nginx, Linux

Cloud Technologies: AWS, Microsoft Azure, Google Cloud, IBM Cloud

Software Patterns / Methodologies: REST API, Microservices, Agile, Scrum

Experience

RBC

May 2023 – August 2023

Software Developer Intern

Toronto, Ontario, Canada

- Saved RBC **approximately \$1,200,000** on a monthly basis, and reduced work-time for agents by **more than 50%**, by creating an internal full-stack summary generation tool for collections agents using React.js, FastAPI, Python, Semantic UI, CSS, JavaScript, and Docker
- Created scripts in Python to extract more than 100 keywords and key metrics about client conversations from Excel file
- Used Power BI to visualize key metrics and keywords from Excel file
- Used Jest and react testing library to create 50 Unit Tests for summary generation front-end, and achieved a **mean test coverage of 92%**
- **Presented solution to senior RBC executives** and an audience of more than 1,000 RBC employees

RBC Capital Markets

January 2023 – April 2023

Software Developer Intern

Toronto, Ontario, Canada

- Converted stock market data from different formats, for more than 1000 datasets using Python, pandas, and Excel
- Used Solace in Python as Service Event Broker, to send stock market data between internal Flask app and data manipulation tool
- Developed GraphQL API in Python, to display financial data from data manipulation tool to React front-end

IBM

May 2022 – August 2022

Software Developer Intern

Markham, Ontario, Canada

- Created Datagrid transactional data store for IBM Carbon Design System open-source library, which received **more than 500,000 downloads** using Node.js, React, and Sass
- Increased Unit Test coverage from **2% to 89%** for Datagrid microservice by adding more than 100 Unit Tests using Jest and Node.js
- Utilized Apollo Client as a state-management tool to fetch data from GraphQL API, and sent data to React app, for IBM Cloud 'Projects' application
- Migrated distributed database application implemented in Redis and CouchDB, from Cloudbant to IBM Cloudant, resulting in a **20% reduction in latency**

BlackBerry

January 2022 – April 2022

Software Developer Intern

Ottawa, Ontario, Canada

- Developed Restful Web Service in Java using Spring Boot, and created 50 Unit Tests using Selenium
- **Reduced authentication time by 20%** for internal developers, by implementing a tool for SAML authentication with third-party applications using Java and Cassandra
- **Reduced latency by 30%**, by replacing third-party Web Driver with native Java libraries
- Developed HTML Parser in Java using JSoup to obtain data for 1000+ registered tenants

OpenText

September 2021 – December 2021

Software Developer Intern

Waterloo, Ontario, Canada

- Created full-stack web application using Node.js, Express.js, React, and SQLite to display execution results of more than 10,000 Unit Tests
- Increased number of successfully executed Unit Tests from **82% to 94%**, by manipulating tests using JavaScript and react testing library
- Designed and developed XML Parser in Java using multi-threading, to streamline the process of executing Unit Tests, resulting in runtime **decreasing by 20%**
- Integrated XML Parser with SQLite database to store attributes of XML Unit Tests and execution results

Analyticly Solutions

May 2021 – August 2021

Backend Developer Intern

Toronto, Ontario, Canada

- **Developed REST API** in Flask and PostgreSQL, to reduce response time from Machine Learning model to web app **by 40%**
- Modularized Python code to send asynchronous web requests to Flask app, thus reducing **Azure VM costs by 35%**
- Integrated Gmail API, Slack API, and Twilio Message Service API, with Azure data pipeline to send early warning data at time intervals specified by the user
- Implemented multi-processing for Machine Learning model using Python, resulting in 30% increase in execution speed
- Converted financial data through different units of time using Python, and satisfied the integrity of 30 Unit Tests, resulting in a 100% conversion accuracy

RIIS LLC

January 2021 – April 2021

Machine Learning Software Engineer Intern

Windsor, Ontario, Canada

- Used Convolutional Neural Networks to develop Image Recognition algorithm with Tensorflow in Python, to identify cars in a parking lot, resulting in a **mean average precision of 89%**
- Annotated more than 16000 sheep images across 700 files using Roboflow to train, validate, and test Image Detection algorithm to find sheep
- Optimized Image Recognition algorithm for detecting livestock using Tensorflow, resulting in accuracy increasing **from 73% to 93%**
- Integrated Java Web Service with MySQL database, and connected Web Service to ETA Detroit android app, to view public transportation times and dates in the Detroit Metropolitan Area