

FARAZ NASEEM

Canadian Citizen

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Education

University Of Windsor

September 2019 – April 2025

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, Object Oriented Programming In Java, Computer Networks, Operating Systems, Data Structures and Algorithms, Object Oriented Software Analysis and Design

Teaching Assistant: Data Structures and Algorithms, Programming In Python, Object Oriented Programming In Java, Introduction To The Internet (HTML, CSS, JavaScript), Introduction To Programming and Algorithms In C

Skills

Languages: JavaScript, TypeScript, Python, Java, HTML, CSS, SQL, GraphQL, Sass, Bash

Libraries/Frameworks: Node.js, Express.js, React.js, Redux, Next.js, Flask, FastAPI, Spring Boot

Testing: Selenium, Jest, react testing library, JUnit, Apache JMeter, pytest, unittest (Python), JUnit

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

Developer Tools: Docker, Kubernetes, GitLab CI, Jenkins, Postman, Git, Github, Maven, Nginx, Linux

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

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

Experience

RBC

May 2023 – August 2023

Software Developer Intern

Toronto, Ontario, Canada

- Developed summary generation tool using React.js, Redux, Next.js, JavaScript, Semantic UI, FastAPI, Python, Docker, and Kubernetes, saving RBC approximately **\$1,200,000 per month** and **reduced work hours for agents by 50%**
- Created scripts in Python to extract more than 100 keywords and key metrics about client conversations from Excel file
- Used PowerBI to create dashboards that visualize key metrics and keywords from Excel file
- Achieved a **mean test coverage of 92%**, by creating Unit Tests for summary generation front-end, using Jest and react testing library
- **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.js, 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 Cloudant 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.js, 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 multithreading, 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 execution **time decreasing by 30%**
- 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