HAMID HARIS

hharis@ryerson.ca hamidharis.com 6479702803
hhamid42 hamid-haris-2a2939135/ hhamid35

EMPLOYMENT

IBM — Toronto
Associate Developer — June 2022 to Current

- Build and maintained **Docker** images to enable a robust testing platform within our infrastructure pipeline
- Worked on micro-service deployments on **AWS ECS** and **EC2** instances
- Developed REST APIs using **Spring Boot** applications to communicate with **Kafka Streams** and **MongoDB**
- Built interactive Single Page applications using various **JavaScript** web frameworks such as **Angular.Js** and **React.Js**
- Designed and tested **Java** applications to retrieve financial data and customer information using JPA and Spring JDBC

Deloitte — Montreal
Solution Developer — June 2021 to June 2022

- Designed, planned and migrated deployments of customer on-premises data centre/applications to Microsoft Azure
- Developed REST APIs using ASP.NET Core to perform CRUD operations on local database
- Suggested enhancement activities for functionality of legacy applications through **C#** applications
- Used **LinQ** and **Entity Framework** to communicate DB objects
- Developed highly scalable **Azure Function Apps** to communicate with backend services
- Created **Azure Service Bus** and **Amazon SQS** bridges to publish and consume data between different cloud platforms
- Used **TypeScript** and **React.Js** to create single page applications to automate major business processes reducing lead time by **50%**
- Deployed web applications to **Azure Web Apps** and utilized native CI/CD features to increase developer productivity and reduce time to delivery

SciCan — North York
Assistant Software Developer — May 2019 to July 2020

- Developed and ported existing applications written in C to a Linux platform using **Python** and an event driven architecture using MQTT
- Developed **Kafka** consumer and producer applications to stream real-time data using MQTT Proxy
- Created **Java** applications to ingest streams of data to join streams and perform **ETL** on streams
- Configured and implemented low level and high level asynchronous web applications using **Python Asyncio** library
- Developed Python applications that queried local data storage using **SQLite** database and Linux file system
- Managed Git repositories and permissions, including branching and tagging
- Created and maintained fully automated CI/CD pipelines for code deployment using TeamCity

PROJECTS

Smart City IoT Platform - Capstone

- Led a 4 person team developing a software platform that allows launching and interaction of different applications to facilitate city management
- Tackled complex problems in usability, scalability, and distributed systems
- Devised a cloud based solution combining **AWS IoT Core**, server-less **AWS Lambda** functions, and **AWS RDS** Database to ensure data coherence between city applications and IoT devices
- Used **AWS SageMaker** to train a **Long Short-Term Memory** machine learning model for time series forecasting and resource scheduling
- Built and deployed **Docker** containers to break up monolithic app into **microservices**, improving developer workflow, increasing scalability, and optimizing speed

MERN Stack Project for Peer-to-Peer Grocery Delivery Service

- Developed a web application for a peer-to-peer grocery delivery service like UberEats
- Front-end developed using **React.Js** and **Node.Js** with the addition of React-Leaflet as an open-source mobile-friendly interactive map
- Back-end developed using **MongoDB, Express.Js and Node.Js** with the addition of SendGrid Node.Js library to send emails to the user from server side
- Future goals are to deploy both the client and server application to Heroku and use Amazon Route 53 to secure a domain name

Raspberry Pi IoT Web Server

- Developed a web-based applications using Python, **Flask**, MQTT, SQLAlchemy, CSS, HTML, JavaScript and jQuery
- Used CSS, JavaScript, **jQuery.Js**, and AJAX to create responsive and dynamic web pages
- Created a **RESTful web-server** on a Raspberry Pi to serve as a home automation hub for wireless devices such as an Arduino ESP8266
- User could interact with wireless devices using a web browser or through a custom Amazon Alexa Skill
- The web-server would interact with an internal SQLite database to fetch devices on the network and to validate and execute control commands
- Designed using **Model View Controller** principles for easy implementation and using MQTT protocol as a means to communicate with devices on the network

CERTIFICATIONS

AWS Certified Solution Architect Associate — Aug. 2022 to Aug. 2025

Microsoft Certified: Azure Fundamentals — Nov. 2021

SKILLS

LANGUAGES: C, Java, Python, C#, JavaScript
DATABASES: MySQL, SQLite, MongoDB
WEB TECHNOLOGIES: HTML, CSS, JavaScript, PHP, jQuery.Js, Flask, django, Angular.Js, Express.Js, Node.Js, React.Js, React.Js, AWS, Azure
SOFTWARE TOOLS: IAR Tool Chain, NGIX, GIT, Docker

EDUCATION

Ryerson University — Sept. 2016 to Sept. 2021
Bachelor of Engineering 2021
Computer Engineering