

Mazen Bahgat

Work Experience

Software Engineering Intern at Microsoft

May 2023 – August 2023 | Redmond, WA

- Delivered engineering excellence compliance requirements through OpenTelemetry Sdk migration, eliminating security risks posed by as-is dependencies.
- Architected and delivered an upstream system integration between data center lease acquisition applications, reducing manual business processes' costs by 50%.

Back-End Developer at NCR Corporation

September 2022 – April 2023 | Waterloo, ON

- Designed and implemented a set of containerized banking micro-services using in-house tools with YAML, Spring boot and NodeJS.
- Improved the efficiency of client-hardware communication on Teller Cash Recycler machines by 66%.

Full Stack Application Developer at Scales Nature Park

May 2022 – August 2022 | Oro-Medonte, ON

- Led a small team through the design and development of mobile and desktop applications in the "MERN" stack for wildlife conservation purposes.
- Coordinated with management and the employee user base to gather application feature requirements.
- Migrated past wildlife conservation data from google sheets to a new Mongo database.

Highlights of Qualifications

- Strong knowledge of software engineering concepts, design, testing, and implementation.
- Self-motivated, quick learner, and able to adapt to modern technologies, concepts, and situations.
- Excellent analytical and problem-solving skills proven through self-led projects.
- Effective communication, interpersonal and teamwork skills.
- Fluent in English and Arabic.

Technical Skills

- **Languages:** C, C# (.NET), Java (Spring Boot), HTML, CSS, JavaScript (NodeJS, NextJS, React Native), Python, Batch, YAML, JSON, XML.
- **Tools:** MongoDB, Kafka, Dataverse, Power Apps, Power Automate, Dynamics 365, REST APIs, Docker, Azure.
- **Techniques:** System Architecture, Software Integration, SOLID Design Patterns, Optimization, Agile.

Personal Projects

Weather Forecast Web Application | April 2022

- Utilized IP-API to get the client's location and OpenWeather API to fetch the client's weather forecast.
- Designed and integrated a responsive web-based GUI, served using a NodeJS server.

SVG Parser Web Application | January 2022 – March 2022

- Designed and employed an interactive web GUI that exchanges user data with the server.
- Implemented SVG parsing libraries written in C, adhering to API specifications.

Automated Course Registration | May 2021 – December 2021

- Developed an automation web bot using the Selenium API with Python.
- Automated the registration of planned courses on the University of Guelph website.

Education

Bachelor of Computing, Honors Co-op Major Software Engineering Minor Marketing | 2020 – Present

University of Guelph