

# MAZEN BAHGAT

 [mazen-bahgat](https://www.linkedin.com/in/mazen-bahgat)  [mbahgatTech](https://github.com/mbahgatTech)  [mazenbahgat.com](https://mazenbahgat.com)

## Experience

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### Microsoft

May 2023 - August 2023

*Software Engineering Intern*

*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%**.

### NCR

September 2022 - April 2023

*Back-End Developer*

*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%**.

### Scales Nature Park

May 2022 - August 2022

*Full Stack Application Developer*

*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

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- 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

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- **Languages:** C, C# (.NET), Java (Spring Boot), JavaScript (NodeJS, NextJS, React Native), Python, Batch, YAML, JSON, XML.
- **Tools:** MongoDB, Event-Driven (Kafka, Azure Service Bus), Power Platform, REST APIs, Docker, Azure.
- **Techniques:** System Architecture, Software Integration, SOLID Design Patterns, Optimization, Agile.

## Projects

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### 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

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### University of Guelph

September 2020 - Present

*Bachelor of Computing, Honors Co-op Major Software Engineering Minor Marketing*

*Guelph, ON*