



MAZEN BAHGAT

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EXPERIENCE

Microsoft

May 2024 - July 2024

Software Engineering Intern

Redmond, WA

- Developed partner engagement and event-driven features within Dynamics CRM to optimize data center lease acquisition processes, enhancing transparency and reducing business costs by **75%**
- Migrated service authentication using client secrets to Managed Service Identity (MSI), eliminating security risks and maintenance overhead.

NCR Voyix

January 2024 - April 2024

Software Developer

Waterloo, ON

- Facilitated a robust suite of collaboration services between remote tellers and clients by developing a proxy server that serves encrypted cloud static content.
- Optimized bank teller UX to empower clients to execute pivotal operations, like secure money transfers and interbranch cash shipments, by implementing real-time data streaming through WebSockets and reducing latency by **99.9%**.

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 research, 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.

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.

TECHNICAL SKILLS

- Languages:** C, C# (.NET), Java (Spring Boot), JavaScript (NodeJS, NextJS, React Native), Python, Batch.
- Tools:** MongoDB, Event-Driven (Kafka, Azure Service Bus), Power Platform, REST APIs, Docker, Azure.
- Techniques:** Distributed Systems Architecture, SOLID Design Patterns, Database Sharding & Replication, Agile.

PROJECTS

SVG Parser Web Application | C, HTML, CSS, JavaScript

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 | Python, Selenium

May 2021 - December 2021

- Developed a course registration automation web bot using the Selenium API and Python.

EDUCATION

University of Guelph

September 2020 - Present

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

Guelph, ON