

# Assil Azim

## Software Engineer

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### TECHNICAL SKILLS

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**Languages:** Java, Python, C++, JavaScript, SQL, HTML, CSS, Shell Script

**Frameworks/Tools:** Spring Boot, Eureka, Hibernate, RabbitMQ, PostgreSQL, MySQL, NoSQL, MongoDB, Docker, Kubernetes, Nginx, Git, Maven, Postman, Jira, Angular, TailwindCSS, Linux

**Concepts:** REST APIs, Microservices, CI/CD, System Design, Database Optimization, MVC Architecture, Agile

### WORK EXPERIENCE

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#### Signify

Mississauga, ON

Software Engineer

Jan. 2023 – Present

- Developed scalable microservices and high-throughput REST APIs in Java (Spring Boot) and Python, including a BACnet integration layer handling 100K+ queries/sec (up from 30K), improving system latency by 65%.
- Led DALI protocol integration supporting auto-discovery of 1,000+ devices/site; implemented a compression pipeline for 24MB+ payloads, cutting discovery time from 5 minutes to less than 1 minute and decreasing processing latency by 80%. Collaborated with cross-functional teams to align on system design and deployment.
- Designed and integrated a version-flexible WACS interface for the lighting platform, enabling legacy/future compatibility across 300+ sites and eliminating hardware upgrade costs. Leveraged modular service architecture and database abstraction to eliminate integration issues and reduce post-deployment support effort by 60%.
- Mentored interns and led Agile environments, collaborating with engineers, stakeholders, and business teams to track progress, align system goals, and translate technical concepts / requirements into clear deliverables.
- Built a Kubernetes-based development environment with Bash automation and container orchestration, enhancing build and environment reliability, scalability and standardizing cloud deployment workflows.
- Integrated Nginx for routing and proxying in Kubernetes setups, enabling service exposure via ingress controllers.

Software Engineer Intern

Sept. 2022 – Dec. 2022

- Refactored full-stack legacy system using JSP, JavaScript, Java, CSS, and PostgreSQL, enhancing UI responsiveness and reducing page load time by 40% through front-end optimization and SQL query tuning.
- Automated dev workflows using Bash and Shell scripting in Linux-based environments, increasing deployment speed and reducing manual errors in CI environments.
- Built, configured, and scripted network setup for new Intel NUC devices used across company deployments.

#### STL Trucking

Bolton, ON

IT/Database Manager

May. 2021 – Sept. 2021

- Built and tested internal SQL system to improve import/export workflow reliability.

### PERSONAL PROJECTS

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#### Sealy Bot

- Built modular Discord bot in Java with 20+ features (Google, Reddit, Twitter APIs); deployed via Docker containers with MySQL-backend persistence.

#### Three Musketeers Game

- Medium-sized development project based on famous video game Three Musketeers. Utilizing object-oriented programming, design patterns, polymorphism, inheritance, composition, dependency inversion, and SRP.

#### MyShoppingCart

- Developed grocery POS system (MVC architecture) with inventory and checkout features; achieved 95%+ unit test coverage via JUnit and JaCoCo.

### EDUCATION

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York University - Lassonde School of Engineering

Sept. 2017 – Sept. 2022

Bachelor of Science in Computer Science [Honours Major]

Toronto, ON

- Vice President of Student Support Application Development Council
- Technical Director of York CSHub
- Web Developer for Google Developer Student Clubs