# Fardeen Khalid Mazumdar

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## Technical Skills

- **Programming Languages:** Java, JavaScript (ES6+), SQL, Python, TypeScript, Linux, HTML5, CSS
- **Tools/Frameworks :** MongoDB, Express, React, NodeJS, AngularJS, Amazon Web Services (AWS), Elasticsearch, Kubernetes, Docker, Terraform, Docker, Selenium, Kali Linux, Unity Game Engine

## Past Work Experiences

**DevOps Engineer** | Vretta Inc.                                            **September 2023 – January 2025**
- Leveraged Amazon Web Services (AWS), Terraform, and Kubernetes for robust infrastructure management, stress testing, and optimization of internal systems, utilizing JavaScript, TypeScript, Python, Shell Scripting and MySQL.
- Led the maintenance and strategic updates of multiple APIs, overseeing CI/CD pipelines, improving system reliability and performance by 35% through innovative solutions.
- Collaborated with cross-functional teams, including Instructional Designers and Data Engineers, to develop and deploy software projects hosting over 500,000 students across Canada, aligning with technical requirements and implementation strategies.
- Provided technical assistance to end-users, ensuring seamless interaction by diagnosing problems, guiding users through solutions, and escalating complex cases when necessary.
- Optimized SQL queries reducing response times by 40%, significantly improving loading times and enhancing overall user experience.
- Implemented LLM/AI API Integration using Amazon Q & Bedrock for automated essay grading, achieving 90% alignment with human scores and cutting grading time by 75%.

**Software Developer** | Ministry of Children, Youth & Social Services          **October 2021 – April 2022**
- Streamlined the Child Protection Information Network (CPIN) using IBM Curam and Oracle SQL, boosting user experience and operational efficiency by 20%.
- Devised effective JUnit test cases, enhancing back-end maintenance and efficiency of CPIN with the use of Java, while researching innovative front-end approaches with Selenium.

**Service Desk Analyst** | Mackenzie Health                                      **January 2021 - April 2021**
- Played a key role in the successful deployment of robust systems such as RTLS, Vocera, and MyCare, enhancing hospital operations and patient care in Canada's first smart hospital.
- Conducted comprehensive MRT Testing to ensure system reliability and performance, bolstering the hospital's technological infrastructure.

## Projects

**Movie Review Web Application** | Java, Spring Boot, MongoDB, ReactJS, REST API
- Engineered using Java and RESTful API methods with Spring Boot for back-end functionality, paired with a user-friendly front-end interface developed with React, ensuring efficient data storage and handling with MongoDB.

**Ransomware Implementation** | Python
- Developed a Python-based ransomware with diverse encryption/decryption capabilities including XOR, AES, RC4, RSA, ECC**.**

## Education

**York University** | Bachelor of Science (Honours), Computer Science          **May 2023**
- **Coursework:** Applied Cryptography, Data Structures, Object Oriented Programming, Database Systems, Design and Analysis of Algorithms, Computer Security Laboratory, Data Mining