

# Urmzd Mukhammadnaim

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[github.com/urmzd](https://github.com/urmzd)

## SKILLS

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**Languages:** (Proficient) Java, Python, Rust, TypeScript, Bash; (Familiar) C, Lua, SQL

**Tools & Frameworks:** AWS, Docker, React, Spring Boot, Node.js, MongoDB, Serverless, GraphQL, Redis, PyTorch

## EXPERIENCE

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**Software Engineer** **Air Miles** **Sep 2022 - Present**  
**Toronto, Ontario**

- Built serverless microservices to generate millions of OAuth 2.0 Access Tokens at scale using AWS Batch, KMS, ECS, and S3.
- Developed internal tooling to collect performance metrics, enabling developers to make informed design decisions.
- Established development standards by leading discussions on testing, architecture and code-level practices.
- Supported junior engineers in their tasks, allowing the team to complete all sprint commitments.

**Software Engineer** **ReelData** **Aug 2021 - Apr 2022**  
**Halifax, Nova Scotia**

- Engineered QA automation tool, reducing QA turnaround by 90% and enabling data collection for R&D purposes.
- Increased observability into data pipelines by engineering features to enable testing, metering, tracing, and shadow-deployments.

**Full Stack Developer** **Dear Life** **Nov 2020 - Apr 2021**  
**Halifax, Nova Scotia**

- Leveraged Serverless framework, AWS Aurora, Lambda, API Gateway, S3 and, CloudWatch to stand-up scalable and fault-tolerant microservices.
- Architected referral microservice using AWS SQS and Serverless, increasing pre-release email signups by 1000%.

**Full Stack Developer** **Shoelace Learning** **Jun 2020 - Aug 2020**  
**Halifax, Nova Scotia**

- Built and maintained RESTful APIs on top of MySQL and MongoDB to handle thousands of daily users in North America.
- Engineered visualization tools using React and Redux to enable educators to view key insights into students' progress.

## PROJECTS

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**Linear GP** **Rust** [github.com/urmzd/linear-gp](https://github.com/urmzd/linear-gp)

- An extensible framework for resolving classical and machine learning problems using linear genetic programming.

**Zettelkasten** **Rust** [github.com/urmzd/zettelkasten](https://github.com/urmzd/zettelkasten)

- A scalable and secure application to enable productive note-taking.

## EDUCATION

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**Dalhousie University** **Sep 2018 - Apr 2023**  
**Bachelor of Computer Science (Hons)(Co-op)**

**Description:** Minor in Mathematics; Certificate in Artificial Intelligence & Intelligent Systems

**Achievements:** Sexton Scholar - Winter 2020, Summer 2021

## HOBBIES & INTERESTS

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Mixed Martial Arts (MMA), Life and Physical Sciences, Neuro-Tech, System Design, Machine Learning