Ryan Almasi

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Technical Skills

Languages: Java, Python, JavaScript, C#/C/C++, Rust, HTML/CSS, Scala, Bash, R
Frameworks & Tools: Spring Boot, React.js, Flask, FastAPI, Django, Swagger, Git, VSCode, PyCharm, JUnit, PyTest
Cloud & Infra: Docker, Azure DevOps, AWS RDS, Azure Data Lake, ARM templayes, Azure Monitor, Firebase
Data & Processing: SQL, MongoDB, Apache Spark, Teradata Database, Apache Hadoop, Pandas
Practices: Agile, Test-Driven Development, Trunk-Based Development, Code Reviews, Incident Response

Professional Experience

Data Engineer, Co-op 05/2025 – 12/2025
RBC Borealis *Calgary, AB*

- Delivered a production-ready stock forecasting platform with a Python backend and React front-end, designed for scalable time-series ingestion and real-time inference achieving 70% directional accuracy on test data.
- Built fault-tolerant Spark pipelines to ingest 1M+ records, enabling modular processing stages, scalable data ingestion, load distribution, and recovery from partial failures in batch workloads.
- Optimized product delivery and improved code quality by standardizing Git workflows and unit test coverage using PyTest, resulting in a 35% increase in QA efficiency.
- Reduced deployment time by 40% with CI/CD pipelines using Azure DevOps and UNIX-based infrastructure.

Data Engineer, Co-op 01/2024 – 08/2024
RBC Borealis *Calgary, AB*

- Led backend design and development of a GenAI metadata generation service, leveraging Python APIs and Spark pipelines to ingest 2M+ enterprise records to generate structured summaries with 85% precision.
- Automated metadata workflows, reducing manual tagging errors by 30% and contributing $2.1M in projected operational savings.
- Implemented robust validation layers and asynchronous ingestion queues to scale across enterprise data sources.
- Participated in weekly code reviews, helping diagnose and resolve production issues with clear root-cause reporting

Fullstack Engineer, Intern 10/2023 – 11/2024
48Hour Discovery *Edmonton, AB*

- Engineered a client-facing web-app using Java Spring Boot and React.js, increasing active user engagement by 30%
- Refactored legacy code into modular services using AWS S3 and Docker, improving performance and scalability.
- Collaborated in Agile sprints with backend, DevOps, and UX teams to implement scalable API endpoints and improve fault tolerance by 25%.

Software Engineer, Intern 05/2022 - 08/2022
M&Z Design Consulting LTD *Edmonton, AB*

- Built a mobile app to capture and classify oil site images, integrating a Java Spring Boot backend with a real-time Python FastAPI ML service.
- Fine-tuned XGBoost models on 500K+ samples, served via a Python FastAPI backend, to support real-time classification and reduce manual analysis time by 40%.
- Authored robust unit, integration, and end-to-end test suites using JUnit to validate backend pipelines and maintain reliability under variable load.

Projects

Tundra - Campus Event Planning App 2024

- Designed to streamline campus-wide event coordination, allowing users to discover, register for, and check in to events via a centralized platform based on a dynamic lottery system.
- Acted as technical lead on a team of 8, driving backend API design via Java Spring Boot, UI design via XML, and cloud integration via Firebase Realtime DB.
- Integrated Google Maps API and QR scanning for real-time location visibility of event attendees and organizers
- Deployed a comprehensive JUnit test suite for end-to-end validation, ensuring platform reliability under load.

Education

BSc. in Computer Engineering – Software Co-op 05/2026
University of Alberta *Edmonton, AB*