

Rustam Mamedov

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SKILLS

Languages: Python, TypeScript, Java, Ruby, Go

Frameworks/Libraries: Ruby on Rails, Express.js, Spring, React.js, Flask, Node.js

Developer Tools: AWS, Git, JIRA, Jenkins, Kubernetes, Docker, Linux

Databases: PostgreSQL, MySQL, Redis, MongoDB

EXPERIENCE

Software Development Engineer

June 2025 – Present

Amazon

Vancouver, BC

- Built an automated service for dynamic host provisioning and de-provisioning using React and Java with Spring, eliminating manual requests and saving **2000 developer hours** (projected) annually across the organization
- Co-developed an AI-based workflow for diagnosing and resolving regional service deployment issues using Python, AWS Kendra, and Amazon Bedrock - reducing troubleshooting time from **2–4 hours** to **5–15 minutes**
- Improved on-call investigation speed and reduced time-to-diagnosis by an estimated **30%** by building a full-stack internal application using React, Ruby on Rails, and Elasticsearch to enable fast, full-text search over archived service logs

Software Development Intern

May 2023 – Sep. 2023

Altair Engineering

Toronto, ON

- Reduced the processing time of config data (JSON, YAML) by 50% by implementing batch processing using Go for an IaC cloud application
- Secured access to cloud-based product for 20+ clients by integrating key-based authentication using PostgreSQL and Go, following security best practices
- Developed 30+ end-to-end and integration tests using Robot Framework and Python, increasing test coverage by 40%

Quality Engineer Intern

May 2022 – Aug. 2022

TD Bank

Toronto, ON

- Reduced manual testing time by 40% by developing a custom automation framework for testing data ingestion workflows using Java, Spring, JUnit, MySQL and Azure SDK
- Integrated CI/CD static code analysis with Jenkins and SonarQube, reducing code quality issues
- Processed 1K+ records daily with 100% schema validation by implementing ETL pipelines using Azure DataFactory, Python, PyTest and Databricks

Software Development Intern

Oct. 2021 – Feb. 2022

Leapgrad

Toronto, ON

- Built a high-performance analytics panel using AWS Lambda and Express.js to process real-time user activity data, tracking 10K+ users and enhancing engagement insights
- Implemented a trending posts feature using TypeScript, React.js, and Express.js, dynamically surfacing popular discussions based on user activity

EDUCATION

University of Western Ontario

London, ON

Bachelor of Science – Honors Specialization in Computer Science

GPA: 3.80/4.00

PROJECTS

Spry *TypeScript, React, Express, MongoDB*

- Developed a full-stack web application for creating and organizing tasks using a kanban-style board
- Implemented JWT-based authentication using Auth0 to for secure authentication and authorization
- Implemented GitHub Actions CI/CD pipeline for automated testing