

AYUB MOHAMED

Forward-Deployed Software Engineer

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PROFILE

Software developer with more than four years translating operational requirements into secure APIs, configurable workflows, integrations, and production releases across government identity, federal interoperability, agency tools, and client delivery.

WORK EXPERIENCE

Canadian Bank Note Company 🍁

Mar 2023 - Present

Software Developer

- Help onboard national-government identity programs by interpreting jurisdiction requirements, configuring the shared platform, developing features when configuration is insufficient, testing complete workflows, resolving defects, and supporting releases.
- Serve as project lead for the St. Lucia implementation and co-lead delivery of the public St. Kitts and Nevis eVisa service within larger development, QA, DevOps, database, business-analysis, and implementation teams.
- Build Java, Spring, Hibernate, and Vaadin services for passport, visa, and identity-document workflows backed by PostgreSQL and Oracle. Use XML rules and Spring Profiles to express country variation without separate client codebases.
- Developed Trinidad and Tobago's online passport and payment flow with invoice validation, confirmation, retry handling, idempotent calls, and transactional workflow updates. Diagnose production issues across logs, correlation IDs, APIs, configuration, and database state.

Automation Tester

Mar 2022 - Mar 2023

- Built a Java, Selenium, and JUnit 5 framework around high-risk passport workflows, adding API-first checks, parallel execution, Jenkins and Bitbucket CI coverage, and systematic flaky-test triage.
- Developed a Python tool that generated valid XML test records and pre-seeded databases for different client configurations, replacing repeated manual test-data setup and shortening regression preparation.

Employment and Social Development Canada 🍁

May 2020 - Apr 2021

Software Developer Intern

- Built more than 30 Spring Boot REST components for the OASIS interoperability platform, replacing SOAP services and exchanging data across federal systems through Azure API Management.
- Implemented controller, service, repository, and DTO layers for Protected B workflows using OAuth 2.0, JWT validation, mutual TLS, Flyway migrations, and JUnit coverage across owned components.

SELECTED SYSTEMS

Q Intelligence | *Next.js, TypeScript, SQLite, Instantly API, JSON Schema*

2026

- Designed Que Media's internal lead-operations system around prospect research, communication history, replies, follow-up, outreach goals, and campaign learning. Added schema validation, source and duplicate checks, deterministic scoring, suppression rules, idempotency, audit history, and human approval before submission.

QUE Signal | *Next.js, PostgreSQL, Recharts, Meta, YouTube, TikTok*

2026

- Built agency and client analytics workspaces, durable account and post history, content and growth views, repair queues, and frozen reports. Implemented fixture-tested collectors with retries, token refresh, rate-limit handling, backfills, gap repair, and anomaly detection.

QuestBoard | *Next.js, TypeScript, SQLite, structured worker workflows*

2026

- Built a private job-operations system connecting qualification, application materials, status, recruiter contacts, unsent outreach drafts, replies, and history. External workers prepare evidence while authenticated state and human confirmation control durable actions.

MasjidPass | *Flutter, Dart, REST APIs, MVC*

2021

- Led a five-person team and worked with mosque operators to replace an unreliable event check-in process with QR verification and clear valid, invalid, network, and authentication states.

EDUCATION

Algonquin College

Sep 2018 - Dec 2021

Ontario College Advanced Diploma, Computer Engineering Technology (Computing Science), Co-op

- Coursework: Object-Oriented Programming, Data Structures, Software Design and Testing, Database Systems, and Web Enterprise Applications.

TECHNICAL SKILLS

Languages: Java, Python, SQL, TypeScript, JavaScript, C#, XML, Dart, HTML, CSS

Frameworks and data: Spring Boot, Spring Data JPA, Hibernate, React, Next.js, Vaadin, Flutter, PostgreSQL, Oracle, SQLite, Flyway

Delivery and testing: Azure APIM, Docker, Kubernetes, OpenShift, Jenkins, GitLab CI, Bitbucket, JUnit 5, Selenium, Playwright, Postman

Applied AI workflows: Agent responsibilities, prompt and schema design, structured outputs, tool coordination, deterministic validation, human review