

DANIEL OLUWATOSIN

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EDUCATION

University of Prince Edward Island

B.Sc. in Computer Science, Minor in Economics

Charlottetown, PE

Expected May 2027

Relevant Coursework: Data Structures & Algorithms, Software Engineering, Operating Systems, System Design, Machine Learning.

EXPERIENCE

Software Engineer Intern

May 2026 – Aug 2026

Mackenzie Investments (IGM Financial) — Product Department

Toronto, ON

- Built a full-stack fund-analytics platform (Flask 3, React 18, TypeScript, Vite) over a 23-table Google BigQuery warehouse, designed as a reusable foundation for future investment-product tools such as Brinson performance attribution.
- Shipped a Product Health dashboard surfacing fund performance, hit rates, and peer-ranking trends for 91 live funds, with Redux Toolkit and RTK Query as the single source of truth and URL-synced filters for shareable, cached views.
- Designed the BigQuery data layer with SQLAlchemy 2 and Marshmallow, exposing REST endpoints behind a single typed {data, asOfDate} contract and serving all 91 funds end to end from production.
- Centralized client-side financial derivations such as inferring fund asset class from CIFSC category codes into one source of truth driving filters, URL validation, and display.
- Hardened security by sourcing the BigQuery service-account key from HashiCorp Vault (AppRole, KV v2) and adding Microsoft Entra ID (OIDC/MSAL) SSO with group-based access control behind a fail-closed auth layer (89 passing tests); resolved a corporate-CA TLS failure via OS trust-store injection.
- Defined the CI/CD pipeline publishing two lockstep-versioned artifacts (npm bundle and Python wheel) to JFrog Artifactory through GitHub Actions with OIDC and Xray security scanning.

Teaching Assistant

Sept 2025 – Present

University of Prince Edward Island

Charlottetown, PE

- Guided students through data structures, algorithms, and core programming in Java, Python, and C++.
- Supported debugging and algorithmic problem-solving in labs and office hours, helping students strengthen their approach.
- Evaluated assignments with structured feedback and worked with faculty to close common learning gaps.

Software Engineer Intern

Jan 2025 – Apr 2025

British Columbia Electronic Library Network

British Columbia

- Integrated the external TK Labels REST API into production Drupal applications, mapping metadata schemas and improving interoperability across digital-library systems.
- Investigated production issues and shipped fixes across data-driven applications in an Agile team, adding unit tests and iterative improvements to a Drupal platform.

PROJECTS

MapleNest

Node.js · Express · MongoDB · React · Tailwind

- Built a full-stack housing-aggregation platform for student rentals across Canada, with filtered search by location, price, and type.
- Designed REST APIs and a MongoDB schema optimized for fast filtered search across 50+ listings; deployed to production.

ASHE: Lords of the Orun

Unity · C# (in development)

- Co-developing a mobile action-RPG rooted in Yoruba mythology with four elemental combat paths, a 50-stage progression map, and a morality system driving eight endings.
- Building core gameplay systems in C# within Unity (combat, movement, map progression, loot, bosses) under a defined two-developer ownership model.

Monopoly Strategy Simulation

Java

- Built a simulation engine modeling financial transactions, asset management, and strategic decision-making across full game cycles.
- Implemented four AI strategies across 60+ simulations to benchmark performance, applying techniques analogous to portfolio back-testing.

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, Python, C++, C#, SQL

Frameworks & Libraries: React, Next.js, Redux Toolkit, Node.js, Express, Flask, SQLAlchemy, Spring Boot, Tailwind, MUI, Highcharts

Data & Cloud: Google BigQuery, MongoDB, PostgreSQL, Redis, Google Cloud Platform (GCP), AWS

Tools & DevOps: Git, GitHub Actions, Docker, HashiCorp Vault, OAuth2, OIDC, Microsoft Entra ID, SonarQube, JFrog Artifactory, pytest, JUnit

CERTIFICATIONS

Google Cloud Fundamentals | Google UX Design