

# Hamed Dawoudzai

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## EDUCATION

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### University of Toronto

Bachelor of Science in Computer Science

Toronto, Ontario

Sep 2022 – Apr 2027

- **Relevant Courses:** Data Structures and Algorithms, System Design, Databases, Operating Systems

## EXPERIENCE

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### Royal Bank of Canada (RBC)

Jan 2026 – Present

Software Developer Intern - US Cash Management

Toronto, ON

- Built and maintained **Java Spring Boot microservices** supporting high-volume **U.S. corporate payment processing** within RBC Global Payments.
- Reduced end-to-end payment preprocessing latency by  $\approx$  **40–60%** by introducing **API versioning (v2)** and **parallelized Camunda workflows**.
- Improved service scalability and fault tolerance by aligning backend services with **Azure** deployment patterns and offloading non-critical workloads to Spot VM capacity.
- Increased service reliability by implementing comprehensive unit tests using **JUnit and Mockito**, achieving **80%+ code coverage** in a regulated banking environment.

### Traveltical

Sep 2025 - Dec 2025

Software Engineer Intern

Toronto, ON

- Modernized backend services by introducing **API versioning (v3)**, enabling backward-compatible evolution of endpoints without disrupting existing consumers.
- Designed and implemented **layered RESTful services** (controller, service, DAO) with an **ORM-style data access layer**, and authored **Swagger/OpenAPI documentation** to improve maintainability, testing, and developer onboarding.

### Appy.yo

May 2025 – Aug 2025

Software Engineer Intern

Toronto, ON

- Developed and tested full-stack features for an AI-powered physiotherapy platform using **Java (Spring Boot), React (TypeScript), PostgreSQL, Docker, and Nginx**.
- Implemented RESTful APIs for injury-aware workout recommendations, session logging, and an LLM-based physiotherapist chatbot; integrated DeepSeek AI and JWT authentication, eliminating per-request database look-ups and cutting latency by  $\approx$  **80%**.
- Optimized performance and implemented **caching** strategies to reduce REST calls response time from over 10 seconds to below **300** milliseconds.

## PROJECTS

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### Hybrid Stock & Crypto Exchange | *Spring Boot, Next.js, React, PostgreSQL, Redis, Polygon API, Coinbase API*

- Built a full-stack hybrid trading platform for stocks and cryptocurrencies, leveraging **Polygon.io** and **Coinbase Exchange API** to provide real-time market data, capable of supporting **1000+** users
- Optimized backend performance using Redis caching (TTL-based), reducing external API calls by **50%**, and ensuring transactional safety with **PostgreSQL** under concurrent order execution; validated scalability through API load testing with **Postman**
- GitHub Repository: [Hybrid Exchange](#)

### Rewardly - Loyalty Points Management System | *JavaScript, React, Node.js, SQLite, Prisma, JWT, Express*

- Built a full-stack loyalty points platform with **role-based access control** (4 roles), transaction processing, and promotional campaigns, capable of supporting **10,000+** concurrent users
- GitHub Repository: [Rewardly](#)

## TECHNICAL SKILLS

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**Languages:** Java, Python, C/C++, SQL, JavaScript, TypeScript

**Backend & APIs:** Spring Boot, Node.js, REST APIs, JWT, Redis, PostgreSQL, Kafka, Distributed Systems, MVC

**Frontend:** React, Next.js, HTML, CSS

**Cloud & Infrastructure:** Docker, AWS, Microsoft Azure

**Testing & Practices:** Unit Testing, JUnit, Mockito, Agile/Scrum, Object-Oriented Design, JIRA