

Zed Ikejiani

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EXPERIENCE

Machine Learning Engineer Intern

May 2025 - Aug 2025

RBC Borealis (Royal Bank of Canada)

Toronto, ON

- Architected AI-powered meeting intelligence platform serving 15+ teams from launch, automating scheduling, data capture, summarization, and insight generation using Python, Kubernetes, TypeScript React and a Git CI/CD pipeline, reducing documentation time by 40% and enabling 100+ weekly automated meeting summaries.
- Built a secure LLM-driven service enabling natural-language querying and updates over PostgreSQL and MariaDB via Python RESTful APIs and MCPs, supporting 1000+ queries per week with less than 3.3s median latency.
- Led meetings within a cross-functional team to address architectural issues, and conduct knowledge transfer sessions enabling 100% on-time sprint delivery and presented 5+ successful demos to 10 teams
- Optimized ETL pipelines ingesting 5M records daily from transactional databases and internal services, transforming data into analysis-ready formats for downstream AI and analytics workloads while maintaining 99.5% pipeline reliability.
- Built a configurable Python Locust load-testing framework with AWS S3-stored results, uncovering bottlenecks and boosting peak-load capacity by 35% to support 3x projected user growth without infrastructure scaling.

Software Developer Intern

Sep 2024 - Apr 2025

RBC Borealis (Royal Bank of Canada)

Toronto, ON

- Engineered an enterprise-grade Format Preserving Encryption (FPE) service using Java Spring Boot and Python to enable secure cloud data migration, protecting sensitive fields across schemas without breaking consumers.
- Productionized backend services with Docker, Kubernetes, and a Git CI/CD pipelines, cutting deployment time by 70% by researching and optimizing environment-specific configuration, enabling 8+ weekly production releases across Dev, QA, and Prod environments.
- Built event-driven data ingestion and streaming pipelines with Kafka, MariaDB, and Flyway, handling high-throughput data flows while supporting automated schema evolution.
- Developed reusable data-protection REST APIs and libraries protecting 10+ sensitive client fields adopted across internal services, enabling 11+ teams to conduct safe analytics, AI model training, and synthetic data generation while maintaining compliance with data governance standards.
- Created comprehensive technical documentation for encryption services and deployment workflows, reducing new engineer onboarding time from 3 weeks to 1 while enabling successful third-party security audits.

EDUCATION

York University

Bachelor's Degree in Digital Media (Computational Arts)

Sep 2021 - Apr 2026 (Expected)

Sheridan College

Diploma in Computer Programming

Jan 2020 - Jun 2021

PROJECTS

Insomnia | Unity, C#

- Led a 4-person team to build a Unity C# first-person game, architecting time-manipulation and physics systems and delivering a polished vertical slice presented to industry professionals.

Model Kit Catalogue | React, TypeScript, Node.js, Express.js, MongoDB, JWT,

- Developed full-stack TypeScript React web application cataloging model kits with rich product pages featuring embedded videos, dynamic store links, and search functionality supporting 75+ monthly active users.
- Implemented authentication using Google OAuth and JWT tokens, allowing users to have persistent sessions.
- Developed Node.js Express backend REST API with MongoDB for storage and JWT OAuth authentication.

Advanced Graphics & Simulation Systems | Unreal Engine, HLSL, C++

- Built GPU-driven visual effects in Unreal Engine using compute shaders and procedural meshes, including butterfly flocking, noise-based snow and webbing, foliage wind, and dynamic cable/chain physics

TECHNICAL SKILLS

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

Cloud & DevOps: Kubernetes, Docker, AWS S3, GCP, Git, Flyway

Databases & Data: PostgreSQL, MariaDB, MongoDB, Kafka, Data Pipeline

Frameworks & Libraries: React, Node.js, FastMCP, Spring Boot, Unity, Unreal Engine, Bootstrap, FastAPI

Concepts & Specializations: Microservices, Event-driven Architecture, REST APIs, OAuth2, JWT, Machine Learning, LLM Integration, Format Preserving Encryption, Compute Shaders, Procedural Generation, Simulations