Eesher Janda

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Education

University of Guelph Guelph, ON

Bachelor of Science in Computer Science | GPA: 3.8/4.0 *Expected May 2028*

Coursework: Data Structures & Algorithms, Operating Systems, Database Systems, Distributed Systems

Honours: Dean's Honour List (Fall 2024, Winter 2025)

Experience

Codentrel Toronto, ON

Software Engineering Intern *Jun 2025 - Sep 2025*

- Built a **React dashboard for 50+ KPIs**, replacing recurring Excel aggregation for internal analysts.
- Cut PostgreSQL report **P95 latency from 12s to 6s** and increased throughput from **8 to 18 req/s** by removing N+1 queries and adding composite indexes.
- Replaced 30-second polling with WebSockets and Redis pub/sub, reducing dashboard refresh latency to **sub-500ms**.
- Owned drill-down views, date filters, and CSV export from scoping through release; built Jest/React Testing Library tests reaching **85% coverage** and catching **8 pre-production defects**.

Google Developer Groups on Campus - University of Guelph Guelph, ON

Volunteer and Hackathon Participant *Sep 2024 - Present*

- Built a **personalized AI sentence-completion app** at a 2026 hackathon, using prior writing samples to tailor suggestions to the user's style; achieved **87% prediction accuracy in testing** with **approximately 400 ms response time**.
- Helped coordinate **Firebase and web-development workshops** and assisted **approximately 15 participants**; sessions covered authentication, NoSQL databases, API integration, and deployment.

Projects

TriageCI | *TypeScript, Node.js, SQLite, Docker* 2026

- Built a self-hosted service that groups CI failures and distinguishes **flaky tests from sustained regressions** using GitHub webhooks and JUnit reports.
- Implemented signed-webhook verification, duplicate-delivery protection, and a bounded worker queue with backpressure; exposed results through a web dashboard and REST API.
- Processed **375,000 test observations** in local 64-client stress tests at a median **12,261 observations/s**, with no processing failures.

RaftKV | *Java, C11, JNI, Python, Docker* 2026

- Built a fault-tolerant key-value store using **Raft consensus** for leader election and majority-committed replication across three nodes.
- Implemented quorum-checked reads and snapshot recovery; added a **C11/JNI write-ahead log** with checksums and fsync-before-apply durability.
- Tested leader crashes, network partitions, and duplicate delivery in **1,000 seeded fault scenarios**; measured **186 ms failover** in a local live-cluster test.

SyncLab | *C#, ASP.NET Core, React, TypeScript, AES-GCM* 2026

- Built an encrypted, offline-capable collaborative editor with React, ASP.NET Core, and a **CRDT** for concurrent edits.
- Implemented persistent offline replay and an ordered WebSocket relay; repaired out-of-order and duplicate message handling.
- Verified replica convergence across **200 randomized trials** covering **250,000 replica-operation observations**, including temporary message loss and duplicates.

Technical Skills

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

Frameworks & Testing: React, ASP.NET Core, Node.js, Jest, React Testing Library, Vitest

Data & Tools: PostgreSQL, SQLite, Redis, Docker, Linux/Unix, Git, GitHub Actions, CMake