

Justin DeCunha

SOFTWARE ENGINEER

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Work Experience

Tegna

SOFTWARE ENGINEER

July 2025 - Present

- **Designed a real-time dashboard** in React and Go using SSE for live operational monitoring and tooling
- **Designed an alerting system** with Apache Flink and InfluxDB to trigger alerts for critical application events
- **Authored Helm charts from scratch** and contributed to Terraform-based infrastructure provisioning for production services
- **Built GitHub Actions CI/CD pipelines** with automated AI-assisted code reviews powered by GitHub Copilot

American Express

SOFTWARE ENGINEER

June 2024 - July 2025

- **Improved application performance** by implementing non-blocking Kafka retries using exception classification
- **Designed a non-blocking REST API** for banking data using Postgres
- **Refactored architecture with dependency injection** to improve modularity and testability
- Fixed high-availability bug, **reducing failover recovery time from 7 hours to 1 second**
- **Reduced database query execution time by 50%** by tuning database configuration
- **Optimized GitHub Actions CI/CD** by refactoring and modularizing workflow stages

Veeva Systems

SOFTWARE ENGINEER - CLOUD/MICROSERVICES

Mar. 2021 - Apr. 2024

- **Designed four Spring Boot microservices from initial commit to production** as the sole developer
 - **Kafka-based notification service** with a custom DSL for defining Protobuf event filters at runtime
 - A search indexer service that **transforms Athena data into Elasticsearch indices** for the main REST API
 - An ETL service using Spark and Spring Batch to **extract, process, and upload data to S3**
 - A Glue Catalog management service that **improved processing time and lowered monthly AWS costs**
- **Designed three Spring Boot libraries**
 - A **multi-tenant feature flag library** to enable/disable features across instances and environments
 - A **s3 cloud manifest utility** to create and parse proprietary file formats
 - A **parquet library** to standardize parquet I/O operations

StormFree Cloud Corporation

SOFTWARE DEVELOPER - CLOUD/MICROSERVICES

Oct. 2019 - Mar 2021

- **Development/Microservices**
 - Implemented **25+** API endpoints across **6+ Spring Boot microservices**
 - **Designed an update distribution algorithm** based on priority
- **Databases**
 - **Prototyped a seek-pagination library** used across every microservice in the company
 - **Optimized query performance** through indexing and denormalization
 - **Halved DB round-trips** by replacing legacy updates with atomic findAndModify
- **DevOps/Security**
 - Secured services with Keycloak-based role authorization
 - Dockerized services and deployed via Kubernetes

Skills

Languages	Java, Kotlin, Python, Go, SQL, TypeScript, JavaScript
Front-end	OpenAPI, React, Next.js, Tailwind CSS, HTML5/CSS3
Back-end	Spring Boot, Vert.x, Node.js, FastAPI, Microservices, REST API, GraphQL, Linux, Keycloak, MQTT, CQRS
Cloud	AWS, GCP, Docker, Kubernetes, Terraform, CI/CD, Kafka, Apache Flink, gRPC, Protobuf
Databases	PostgreSQL, MySQL, MongoDB, DynamoDB, Redis, Elasticsearch, InfluxDB, Snowflake, JPA, JDBC
Dev Tools	Git, Git Kraken, Postman, Maven, Gradle, GitHub Actions, GitLab CI, CodeFresh
AI Tools	Cursor, Claude Code, Windsurf, GitHub Copilot, Warp

Education

Brock University

B.S. IN COMPUTER SCIENCE (HONOURS)

Sept. 2013 - May. 2018

- Minor in Business