

Portfolio Website | 548-994-9110 | oogale@uwaterloo.ca | linkedin.com/in/om-ogale/ | github.com/OmOgale

SKILLS

Languages: Java, TypeScript, C++, Python, C, SQL, JavaScript, Bash, Racket, HTML/CSS

Frameworks and Technologies: Spring Boot, JUnit, Next.js, React, MongoDB, MySQL, PostgreSQL, Node.js, Express.js, Flask, jQuery

Developer Tools and DevOps: Google Cloud Platform (GCP), Git, Docker, Datadog, Terraform, Kubernetes, Tekton, Jenkins, Visual Studio Code, IntelliJ IDEA, Agile, Jira, Slash, Vercel

COMMUNITY

 **Software Executive @ Google Developer Student Club (GDSC)**

Leading design choices and the product suite, including the team website and Discord bot

 **Software Developer @ Class Profile, University of Waterloo CS Club**

Creating cool interactive visualizations to usher in a new era for the CSC's yearly student profile

EXPERIENCE

Software Engineer

Sep. 2024 – Current

Ford Pro

Dearborn, MI (Remote)

- Architected the high-throughput, microservices-driven new vehicle enrollment flow, optimizing scalability to handle 5M+ annual transactions
- Engineered event-driven microservices in Java and Kotlin with Spring Boot, using GCP Cloud Functions triggered by Pub/Sub for real-time message delivery while implementing a TDD-first approach with JUnit and Mockito for thorough E2E integration and unit testing
- Independently streamlined the codebase by creating a new utilities library for DTO's and generics
- Led pipeline deployments for new microservices with Tekton and infrastructure automation using Terraform for robust provisioning and cluster management

Software Developer

Jan. 2024 – Apr. 2024

Ford Motor Company of Canada

Oakville, ON

★ Outstanding Evaluation

- Spearheaded a 56% increase in dynamic KPI reports to over 60 KPIs by using Recharts and Google Charts
- Planned and built complex end-to-end dashboards concerning Global Metrics and Performance Targets in TypeScript with NextJS and MUI X integrated with SWR caching strategies, CGI Scripts, and MySQL scripting
- Maintained the legacy team website in JavaScript utilizing MaterializeCSS with jQuery
- Introduced novel state management logic and enhanced load times by 90% for Theme Persistence, Report Bookmarking, and Dynamic Report Filtering utilizing Zustand

Systems Software Developer

May 2023 – Aug. 2023

Ford Motor Company of Canada

Ottawa, ON

★ Outstanding Evaluation

- Independently ideated KPIs for an upcoming ECU to identify performance bottlenecks utilizing the Slash Testing framework in Python, QNX and Android Debug Bridge (ADB)
- Setup the first installation of Ford's upcoming infotainment system in the Ottawa Lab
- Solely managed a critical component and lead tri-weekly standup meetings with the Performance team to notify metrics, regressions, as well as blockers

PROJECTS

Om's Exhibit | TypeScript, NextJS, NodeJS, Express.js, MongoDB, Chakra UI, MDX

- My personal digital exhibit styled in Chakra UI! A deep-dive into my thoughts, projects, milestones, and skillsets
- Created with NextJS and served by Express.js which extracts blog posts written in MDX by leveraging relevance-based fuzzy search

Zippy | C++, Python, Docker

- Greater than 2:1 file compression ratio utilizing concurrent parallel processing with the Huffman Coding Algorithm
- Containerized the application using Docker with multi-platform support via buildx to achieve an optimized runtime

DailyDive | ReactJS, Python, Javascript, Flask, Atom, TailwindCSS, Vercel, Replit

- Built DailyDive, a full-stack privacy-driven web digest for educative and amusing content
- Worked on the backend powered by Flask, integrating an online chat guru using the CohereAPI as well as the MemeAPI for the live feed and designed the frontend using Javascript, React, and TailwindCSS

EDUCATION

University of Waterloo

Bachelor of Computer Science, AI Specialization

Waterloo, ON

Sept. 2022 – Present