

Ozguc Dalga

Mechanical Engineer / Full Stack Developer

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Skills

Languages: Java, Python, SQL, JavaScript

Version Control: Git, SVN, GitHub

Web Frameworks: Spring Boot, Django, ExpressJS

Messaging: Kafka, SQS

AI/ML: Pandas, NumPy

Database: MySQL, MongoDB, S3, RDS

Cloud Platforms: AWS, Docker, Kubernetes

Soft Skills: Quick Learner, Detailed-Oriented,

Frontend Stack: HTML, CSS, Angular, React

Problem Solver, Team Contributor

Experiences

Mechanical Engineer

HIGH CLASS RESTORATIONS & STUCCO LTD, Mississauga

03/2026-Present

- Operating and maintaining CNC machinery, ensuring optimal performance, minimizing downtime, and overseeing preventive maintenance activities.
- Preparing technical drawings and production files using ShapeMaster and AutoCAD; converted designs into machine-readable G-code using EnRoute/EasyNet, with additional 3D modeling support in SketchUp when required.
- Led process standardization and automation initiatives in a newly established company, developing structured production workflows and integrating software-driven solutions to improve efficiency and scalability.

Full Stack Web Developer

YY APPLICATIONS INC, Toronto

06/2023-06/2025

- Designed and optimized **database schemas, relationships, and constraints** using **Django ORM** with **PostgreSQL/MySQL**, applying **normalization** for consistency and **denormalization** for performance tuning.
- Developed **asynchronous, event-driven services** with **Apache Kafka**, combined with **circuit breaker patterns (Resilience4j equivalents in Python)** to ensure reliability during **downstream API failures**.
- Implemented **API Gateway / Django middleware** with **JWT authentication, OAuth2, and rate limiting**, improving security and reducing **unauthorized API calls by 35%**.
- Created **responsive Django templates and React/Angular components** for dashboards and invoicing forms, boosting operational efficiency for end-users by **25%**.
- Developed **RESTful APIs and GraphQL endpoints** using **Django REST Framework and Graphene-Django** to manage **inventory, invoicing, and user workflows**, cutting manual entry time by **40%**.
- Enhanced performance with **Django caching strategies** (Redis, Memcached) and **query optimization**, leading to faster data access and reduced server load.
- Merged **front-end forms (React/Angular/Vue) with Django backends**, streamlining data flow via **DRF serializers and model validation**, reducing submission errors by **50%**.
- Automated background tasks like **email notifications, payment processing, and data synchronization** using **Celery and Django signals**, ensuring high reliability in production workflows.

Full Stack Software Developer

FGC HEALTH, Alberta

11/2022-04/2023

- **Deployed distributed services in Java** to **Linux-based** on-premises data center environments using **Jenkins pipelines**, reducing manual release efforts by **60%** and ensuring consistent artifact delivery.
- Integrated the **Twilio API** into a Java-based enterprise system, **ACCESS POINT**, to automate SMS notifications for patients linked to pharmacy systems, improving communication efficiency by **40%**.
- Queried patient response data from **MySQL databases**, filtered engagement metrics, and generated pharmacy-specific reports in CSV format, enabling insights for over 10 pharmacy branches.
- Authored **Bash scripts** to automate routine server maintenance, log rotation, and data backups, increasing operational efficiency by **30%**

- **Integrated the Twilio API using synchronized RPC inter process communication** into a **Java** enterprise system, **ACCESS POINT**, to automate **SMS notifications** for patients linked to pharmacy systems, improving communication **efficiency by 40%**.

Full Stack Developer (Talent Incubation Program)

JARVIS CONSULTING GROUP, Toronto

10/2021-07/2022

- Participated in a rigorous bootcamp—working on user stories across multiple tech stacks such as **Spring Boot**, **REST API design**, **cloud deployments**, **data pipelines**, and **UI** development.
- Built a Twitter API integration app leveraging **REST APIs** and **OAuth Authentication** to retrieve, process, and display live social media feeds.
- **Designed and optimized PostgreSQL databases** for e-commerce microservices, including **data modeling**, **indexing**, **query optimization**, and **transaction management** to ensure high performance and reliability.
- **Containerized** backend services and front-end builds using **Docker** to ensure consistent deployments across environments.
- Developed a command-line **“Grep App”** in Core Java simulating real-world text search functionality, demonstrating **strong problem-solving** and **algorithm optimization** skills.
- **Containerized Spring Boot services with Docker and orchestrated deployments with Kubernetes**, improving scalability and reliability of the e-commerce application.
- Utilized **Docker** and **Kubernetes** for **microservice deployment**, enhancing **scalability** and reducing **deployment time** by 10%.
- **Designed and optimized PostgreSQL databases** for e-commerce microservices, including **data modeling**, **indexing**, **query optimization**, and **transaction management** to ensure high performance and reliability.
- Implemented **AWS fundamentals (EC2, S3, IAM)** to deploy applications and manage cloud resources, ensuring hands-on exposure to cloud infrastructure.
- Demonstrated **leadership** in the incubation team, managing **daily stand-ups**, **sprint planning**, **retrospectives**.

Projects

Langchain Customer Support	AI Customer Service API	2025
Hotel Reservation Management System	Python-and-Flask Application	2024
WeatherWiseApp	Application	2023
Hospital CRM Project	MedySync-Pro	2025

Certifications

AWS Cloud Computing	ThinkCloudly	05/2025	credential
Cloud Governance Concepts	Microsoft	10/2024	credential
Git Essentials Training	LinkedIn	11/2024	credential
Microsoft Copilot (Prompt Writing)	LinkedIn	02/2025	credential
Learning Kubernetes	LinkedIn	03/2025	credential
PMI Agile Certified Practitioner (PMI-ACP)	LinkedIn	03/2025	credential

Education

Lambton College	Computer Software & Database Management	2020-2022
Karabuk University	Engineering Faculty (Mechanical Engineering)	2011-2016

Interests

Hockey, Baseball, Hiking

References

Available upon request.