

Reza Golkhandani

Backend Developer/Full-Stack Developer

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Ottawa, ON, Canada

PROFESSIONAL SUMMARY

Full-stack developer with 8+ years of experience delivering scalable and optimized web solutions across SaaS, AI, and entertainment industries. Skilled in backend development, database design, and modern frameworks. Proficient in **Node.js (JavaScript/TypeScript)** and **C#**, with working knowledge of **PHP**, **AWS (EC2, S3, RDS)**, and frameworks like **React.js** and **Angular**. Self-taught with a strong foundation in problem-solving and adaptability. I am open to relocating to other provinces or cities and exploring new opportunities as a Canadian Permanent Resident.

TECHNICAL SKILLS

JavaScript / TypeScript	Kubernetes	OpenTelemetry
Node.js (React/Angular)	Docker	CI/CD
Dart (Flutter)	Elasticsearch	Automated unit, integration, and E2E
PHP	RabbitMQ / Kafka	tests
C# (UWP/WPF/.NET)	SQS / Kinesis	Agile Development
PostgreSQL	GraphQL	API Design & Optimization
MongoDB	Serverless Framework	
AWS (EC2, S3, RDS)	Graylog	

PROFESSIONAL EXPERIENCE

Full Stack Development Instructor

Canadian College of Technology and Business (CCTB)

Sep 2024 – Present

- Teaching and mentoring classes of **20 people on programming courses for 3 semesters**.
- **Redesigned the curriculum** to emphasize practical applications and modern automation practices, aligned with B.C. Curriculum standards.
- **Object-Oriented Programming (Java)**: including topics on **software development life cycle**, **Agile Development**, **Java basics**, and **Data Structures**.
- **Introduction to Internet Programming and Web Applications**: teaching **HTML**, **CSS**, **JavaScript**, **Node.js**, **DOM**, **jQuery**, **MongoDB**, and Mentoring groups of up to 5 students for their final projects.
- **Linux Operating Systems and Networking**: including Linux basics, **Bash scripting**, **Task automation**, User management, Network management, and Web servers.
- **Software Test Automation**: Covering topics on Client-Server Architecture, Web Technologies, **Selenium**, **Pytest** (Python), and Data Driven Testing.

Full Stack Developer

EvolveX Branding Inc. (Canada, Remote)

Sep 2024 – Present

- Created and deployed backend **REST API** endpoints and integrated Stream's platform for real-time chat/chatbot features (Node.js, **Typescript**, Mocha).
- Collaborated with Product and Design teams to define and implement the MVP mobile app, handled iOS and Android builds, App Store/Play Store submissions, and implemented features like maps, payments, and REST API integration (**Flutter**, Dart, BloC).
- Integrated **OAuth2** systems such as Google, Apple, and LinkedIn.
- Built and maintained a real-time progress monitoring chatbot using **GetStream API** in combination with the **OpenAI API**.
- Designed and managed databases for content and geolocation-based data search (**PostgreSQL**, **PostGIS**).
- Integrated Husky and lint checks into the CI/CD on **GitHub actions** pipeline for both backend and frontend projects to enforce code quality and prevent bad commits.
- Containerized applications and established a **CI/CD** pipeline on **GitHub Actions** to support automated tests and deployments for all environments on **Kubernetes**, resulting in easy and fast scaling.
- Developed internal Media Processor Tool using **FFMPEG**, **ImageMagick**, and **MinIO**, **Node.js** for media handling.
- Integrated **Logstash** with **HAProxy**, **Nginx**, and Node.js applications for efficient monitoring and logging.

Full Stack Developer

SkyHive Technologies Inc. (Vancouver, Canada, On-site)

Dec 2022 – Jan 2024

- Designed, developed, and maintained backend REST APIs for **end-user and business applications** (Node.js, JavaScript, **TypeScript**, **GraphQL**, Next.js).
- Worked closely with the Design team to deliver a responsive SaaS application, **implementing a custom design system** to match the customer's branding (**Flutter**, Dart, and **React.js**).
- Improved performance of background workers and optimized database queries for the rating system, resulting in reduced mismatch rates by 10% and faster runtime by 50ms~200ms per execution.
- Managed distributed workloads for easy scaling, **balancing performance and cost-efficiency**, resulting in ~25% less cost compared to AWS/Azure solutions (**Kafka**, **RabbitMQ**, and YugabyteDB, **PostgreSQL**).
- Collaborated with the DevOps team to implement and optimize **CI/CD** pipelines on Bitbucket for automated testing and deployment of applications on Kubernetes and Containerization for Docker.
- Implemented comprehensive monitoring using **OpenTelemetry** and **Graylog**.
- Designed comprehensive software and cloud architectures flow diagram, including detailed technical documentation.

Software Developer

Plasmatic Technologies Inc. (Vancouver, Canada, Hybrid)

Oct 2021 – Dec 2022

- Developed and maintained over three backend services for **Data anonymization**, **Recommendation System**, IoT communication, and Reports (Node.js, **Serverless framework**, JavaScript, **Typescript**, OpenSearch, **AWS**, and **GraphQL**).
- Refactored and **migrated JavaScript Libraries to TypeScript** for IoT communication services while optimizing the flow using **SQS** and **Kinesis** streams.
- Started the journey of **in-house NPM package** development for mission-critical validations and continued development of shared TypeScript modules.
- Improved unit test coverage in critical services, reaching more than 90% coverage on most of the critical services.

- Improved **IoT data input and analytics flow** by integrating AWS services such as **Amazon Timeseries, Kinesis, Fargate, SQS, and S3**.
- Designed schemas and queries for a **high-performance Vector-based (KNN) recommendation system** (Elasticsearch/Opensearch).
- Advised and mentored two team members on Database Administration, AWS, and Backend Development (Node.js).

EDUCATION & CERTIFICATIONS

MSc Instructional Technologies, New York Institute of Technology, Vancouver, BC, Canada

BSc Electrical Engineering, University of Semnan, Iran

OPEN SOURCE PROJECTS

Vancouver Art Compass (In-Progress): A digital tour guide in B.C focused on public arts using Flutter/Dart, Bloc, and Supabase/PostgreSQL, Android/iOS/Web. (<https://vancouverartcompass.ca>)

Image-hero: Dockerized Image manipulator tool using Sharp API, MongoDB, Node.js with Redis-based Auto Cache, Template URL support, and MinIO as Object Storage. (<https://github.com/golkhandani/image-hero>)

mysql2-nestjs: MySQL2 TypeScript/Node.js package integration with Nest.js to handle Multi-tenancy on the connection level. (<https://github.com/golkhandani/mysql2-nestjs>)

fastest-validator-nestjs: Decorator-based TypeScript/Node.js validation module based on Fastest-validator to match Nest.js coding style while providing a function-based, pre-compiled validation flow. (<https://github.com/golkhandani/fastest-validator-nestjs>)