

# TEDDY MALHAN

672-339-2503 | [ama367@sfu.ca](mailto:ama367@sfu.ca) | [linkedin.com/in/teddymalhan](https://linkedin.com/in/teddymalhan) | [github.com/teddymalhan](https://github.com/teddymalhan) | [malhan.ca](https://malhan.ca)

## EDUCATION

### Simon Fraser University

Burnaby, BC

Bachelor of Science in Computer Science, GPA: 3.81

Expected Graduation: May 2027

- **Relevant Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Discrete Mathematics, Computer Systems, Database Systems, Software Engineering, Web Development, Calculus I & II
- **Awards:** Google DSC Hackathon Winner (2024), Mountain Madness Hackathon Winner (2025)

## EXPERIENCE

### Electronic Arts

May 2025 – Aug 2025

Software Engineer Intern

Vancouver, BC

- Engineered an AI agent using **Python FastAPI (LangGraph)** & **React** to streamline game configuration workflows.
- Built **Golang** microservices (MCP) to efficiently handle over **1.2 million linked records**, saving 100+ hours/month.
- Delivered **100× query speed improvement (18.2s → 157ms)** for 120k records by database sharding optimization.
- Implemented **Redis (AWS ElastiCache)** TTL based caching for **Go** MCP Server querying **GraphQL** endpoints.
- Scaled microservice to handle **250k RPS** on **AWS EKS (Kubernetes)** using **Docker, Helm, and Terraform**.
- Automated deployment with **GitLab CI/CD** pipelines and implemented HPA scaling (3 → 17 pods).

### Dialpad

Jan 2025 – Apr 2025

Software Engineer Intern

Vancouver, BC

- Delivered Digital Scorecards serving **70k+ end users** with **200k RPS** peak capacity using **Vue.js (TypeScript)**.
- Built WCAG compliant components & collaborated with senior engineers & QA teams using Jira & Git.
- Shipped 7+ compliance-driven feature flags in **Django (Python)** to customize Dialpad AI for Randstad.
- Reduced operational overhead by **10% for 600k+ clients** through targeted feature customization and optimization.
- Led cross-team initiative to reduce observability costs by **30%**, migrating 20+ dashboards from **Datadog** to Observe.

### Develop For Good

Sept 2024 – Dec 2024

Software Engineer

California, United States

- Redesigned full-stack website for Forgotten Felines of Sonoma County using **TypeScript, React, and Next.js**.
- Reduced load times from 3s to 1s, enhancing SEO with **Tailwind CSS** and Figma designs.
- Integrated **Supabase (PostgreSQL)** database for real-time updates and deployed on **Vercel**.
- Shipped **10+ production-ready features** in Agile sprints, delivering value throughout the **SDLC**.

## PROJECTS

**HelpGetMeFit!** | *Spring Boot, Java, Reactjs, RabbitMQ, MongoDB, Maven, JUnit5, Mockito*

Sept 2025

- Built **Java Spring Boot** microservices, implementing Saga & CQRS patterns for distributed transaction consistency.
- Sustained **8.5k RPS / 55k msgs/min** throughput using **RabbitMQ** quorum queues with **p99 latency of 260ms**.
- Reduced MTTR to **12 minutes** through comprehensive testing with **JUnit5, Testcontainers**, and **k6**.
- Automated zero-downtime deployments with **blue/green rollouts** and CI/CD pipelines.

**WasteWise** | *React Native, Expo, Python, FAISS, TensorFlow Lite, pytest, k6*

Oct 2024

- Architected a FAISS & NLP based waste sorting system powered by **RAG, OpenAI Embeddings** and **pgvector**, parsing 20k+ mappings of food items to bins.
- Built **React Native (Expo)** mobile app with **react-native-vision-camera** for real-time waste classification.
- Integrated **YOLO model trained on TrashNet dataset** with **TensorFlow Lite** for on-device image recognition.
- Ensured 100% test coverage through pytest, applying Test-Driven Development (TDD) for a robust design.

## TECHNICAL SKILLS

**Languages:** Python, Java, SQL, TypeScript, Go/Golang, JavaScript, HTML/CSS, C, C++

**Frameworks:** LangGraph, LangChain, Spring Boot, Reactjs, Node.js, Gin, Express, Flask, FastAPI, Next.js, Django, Vue.js

**Libraries:** pandas, NumPy, Matplotlib, ShadCN, Aceternity, Tesseract, vLLM, DStack

**Developer Tools:** Git, Docker, PostgreSQL, AWS (EC2, RDS, S3, DynamoDB), GCP, Figma, Kubernetes, Postman