TEDDY MALHAN

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EDUCATION

Simon Fraser University   **May 2027**
Bachelor of Science in Computer Science GPA 3.81   *Burnaby, BC*

EXPERIENCE

Electronic Arts   **May 2025 – Aug 2025**
Software Engineer Intern   *Vancouver, BC*
- Engineered a ReAct AI agent leveraging Python FastAPI (LangGraph), React, and Go to streamline game configuration workflows, efficiently handling over 1.2 million linked records for FC 26 and saving more than 100 hours monthly.
- Achieved a 100× improvement in query speed (18.2s to 157 ms for 120k records) by implementing database sharding and TTL based caching with Redis (AWS ElastiCache) for a Golang MCP Server querying GraphQL endpoints.
- Scaled the microservice to handle 250k RPS on AWS EKS (Kubernetes), using Docker, Helm and Terraform, automating deployment using Gitlab CI/CD pipelines, scaling $3 \rightarrow 17$ pods with HPA under stress tests.

Dialpad   **Jan 2025 – Apr 2025**
Software Engineer Intern   *Vancouver, BC*
- Delivered the Digital Scorecards for 70k+ end users and 200K RPS peak, by building WCAG compliant components using Vue.js (TypeScript), collaborating with senior engineers and QA using Jira and Git.
- Shipped 7+ compliance-driven feature flags in Django (Python) to customize Dialpad AI for Randstad, contributing to a drop of operational overhead by 10% for 600K+ clients.
- Collaborated in a cross-team initiative to reduce observability expenditure by 30% by migrating 20+ dashboards from Datadog to Observe, maintaining reliability of observability (o11y) pipelines on Google Cloud Platform.

Develop For Good   **Sept 2024 – Dec 2024**
Software Engineer (Remote)   *California, United States*
- Contributed to redesigning a full-stack website for Forgotten Felines of Sonoma County using TypeScript, React, Next.js, Tailwind CSS, and Figma, reducing load times from 3 seconds to 1 second to improve SEO.
- Integrated with Supabase (PostgreSQL) SQL database for real-time updates and deployed on Vercel, with secure JWT based authentication, and shipped 10+ production ready features in Agile sprints.

PROJECTS

HelpGetMeFit! | *Spring Boot, Java, Reactjs, RabbitMQ, MongoDB, Maven, JUnit5, Mockito*   **Sept 2025**
- Built microservices with Saga, Outbox, CQRS, BFF, and Strategy design patterns, enabling cross-service consistency.
- Sustained 8.5k RPS / 55k msgs/min using RabbitMQ quorum queues, idempotency keys, and Reactive WebClient with backpressure (p99 260 ms).
- Achieved 12 min MTTR by establishing a robust test pyramid (JUnit5, Mockito, Spring Cloud Contract, Testcontainers, k6) and automated CI/CD with blue/green rollouts.

WasteWise | *React, Python, FAISS, 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.
- Achieved 100% test coverage through pytest, applying Test-Driven Development (TDD) for a robust design.

AWARDS

- **Google DSC Hackathon Winner**: Awarded best project for **GradGains**, a financial social media.
- **Mountain Madness 2025 Winner**: Awarded runner-up for **ChaosLearn**, an AI powered learning assistant.

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, Acerternity, Tesseract, vLLM, DStack
Developer Tools: Git, Docker, PostgreSQL, AWS (EC2, RDS, S3, DynamoDB), GCP, Figma, Kubernetes, Postman