

Teddy Malhan

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EDUCATION

Simon Fraser University, British Columbia, Canada

Expected May 2027

Bachelor of Science in Computer Science | Dean's List

GPA 3.81

- Courses: Data Structures & Algorithms, Artificial Intelligence, Object-Oriented Programming, Web Development

EXPERIENCE

Electronic Arts

May 2025 – Aug 2025

Software Engineer Intern

Burnaby, BC

- Designed, developed and took ownership of an end-to-end AI agent to deploy AI driven configurations to games with peak **450k RPS** using **Python FastAPI (LangGraph)**, React, Redis (AWS Elasticache) and Postgres (AWS Aurora), processing **1.2 million+** linked records for FC 26, saving **100+ hours per month**.
- Delivered **100× faster querying (18.2s → 157ms for 120k records)** by database sharding (database design) and incorporating TTL using Redis (AWS ElastiCache), while building a **Go MCP Server** for GraphQL.
- Deployed the microservice on AWS EKS (Kubernetes), using Docker, Helm and Terraform, automating deployment using Gitlab CI/CD pipelines, scaling 3 → 17 pods with HPA under stress tests.

Dialpad

Jan 2025 – Apr 2025

Software Engineer Intern

Vancouver, BC

- Delivered the Digital Scorecards feature for EAP Pilot, by building WCAG compliant components using Vue.js (**TypeScript**), Pinia, collaborating with backend and QA developers using Jira and Git.
- Shipped 7+ compliance-driven feature flags in **Django (Python)** for the business logic for Randstad to customize Dialpad AI, contributing to a **drop of operational overhead by 10% for 600K+ clients**.
- **Reduced observability expenditure by 30%**, migrating 20+ dashboards from Datadog to Observe, maintaining reliability of observability (o11y) pipelines on Google Cloud Platform.

PROJECTS

Real-Time Trading Analytics Platform

Python, KDB+/Q, Streamlit, Plotly, WebSockets

- Designed a low-latency market data pipeline using Python + KDB+/Q delivering **5ms ingest** and **10ms analytical queries** for live intraday monitoring.
- Developed a real-time technical indicator engine (SMA/EMA/RSI/MACD/Bollinger) with automated signal alerts achieving **300ms tick-to-signal freshness**.
- Built an institutional-style Streamlit dashboard with real-time price action + system health, reducing reconnection downtime to **near-zero** via self-healing stream recovery.

Kaeru

AWS Amplify, Bedrock, Step Functions, Lambda, Plaid, Next.js

- Architected a fraud detection engine leveraging Sonnet 4 (Bedrock) and rule-based heuristics to analyze **10K+ daily Plaid transactions**, reducing analyst review time by **60%**.
- Developed an automated subscription cancellation platform integrating merchant APIs and AI voice agents (Vapi) to execute terminations and dispute filings at scale.
- Orchestrated fault-tolerant workflows using Step Functions + Lambda with retries, fallbacks, and DynamoDB state persistence, improving completion rate by **25%**.

AWARDS & EXTRACURRICULARS

- **Develop for Good Engineering Manager**: Led 3+ software teams delivering full-stack and data analytics platforms.
- **SFU Blueprint - Reel Youth**: Shipped **10+ features** for website redesign (TypeScript, Next.js, Supabase) for 7K+ users.
- **SFU Open Source Club Executive**: Lead scoping sessions and coordinated cross-functional teams to build pro bono software.
- **Google DSC Hackathon Winner**: GradGains — financial social platform enabling peer investment insights.
- **Mountain Madness 2025 Runner-Up**: ChaosLearn — AI-powered adaptive learning assistant.

SKILLS

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

Frameworks: LangGraph, LangChain, Spring Boot, React, Node.js, Gin, Express, Flask, FastAPI, Next.js, Nest.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, NGINX, Postman