

# 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

- Owned end-to-end development of a production-grade service using **AWS CDK (TypeScript)** and **Java based AWS Lambda Functions**, automating manual pack creations workflows for producers across **3+** countries.
- Launched to production with **AWS CloudWatch** dashboards used daily by the EA Sports FC producer team, cutting costs by \$8K+ monthly and saving 80+ hours of manual work each week
- Integrated with live systems processing **40M+ events/day** by connecting **AWS SNS and SQS** to internal services and persisting artifacts in **AWS S3**, reducing manual querying time by 23%.

**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

**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%**.

**SFU Blueprint – Reel Youth**

**TypeScript, React, Next.js, Tailwind CSS, Supabase**

- Redesigned and optimized a full-stack site for Reel Youth, cutting load time from **3 s → 1 s** and improving SEO performance.
- Integrated Supabase (PostgreSQL) for real-time updates and JWT-based authentication, delivering **10+ production features** within Agile sprints.

**WasteWise**

**Python, FAISS, Kafka, pgvector, pytest, k6**

- Engineered an NLP-driven waste-sorting system using FAISS, OpenAI Embeddings, and pgvector to map **20K+ food items** to recycling bins via RAG retrieval.
- Applied Test-Driven Development (TDD) achieving **100% API test coverage** with pytest and load-tested system throughput using k6.

## 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.

## SKILLS

**Languages:** Python, Java, JavaScript, TypeScript, SQL, HTML5, CSS, C

**Developer Tools:** AWS, Postman, Git, Docker, Prisma, Supabase, Google Cloud Platform, Firebase, PowerBI, Azure, Jira

**Libraries/Frameworks:** Spring Boot, ReactJS, NextJS, React Native, Expo, NodeJS, PostgreSQL, VueJS, Flask