CHAITANYA MITTAL

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Technical Skills

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

Frontend: React.js, Next.js, Tailwind CSS, Bootstrap, DOM Parsing, Three.js, Vite, UX/UI Design

Backend: Node.js, Express.js, Flask, Spring Boot, MERN Stack, REST APIs, SQLite, PostgreSQL, MongoDB

Other Git, GitHub, Postman, Vitest, Jest, OAuth 2.0, JWT, Manifest v3, Prompt Engineering, Figma, Balsamiq, Maze

Technical Work Experience

Full Stack Developer

Blueprint SFU **Sep 2025 – Present**

- Developing a production-grade membership application system using Next.js, React, and Tailwind CSS to streamline onboarding for RPRC members and support upcoming online payment workflows.
- Implementing secure backend modules with **Node.js, Express,** and **Supabase** to enable admin review, member management, and automated email/notification pipelines, improving operational efficiency.
- Collaborating with designers and PMs to plan accessibility improvements and restructure content for the public RPRC website, aligning with community-focused design.

Projects

SFU Course Planner | *Live Demo* | *Github* **Spring Boot | Next | AWS | OAuth | JWT | PostgreSQL**

- Built and deployed a production full-stack web application using **Next.js (TS)** and **Spring Boot**, delivering live enrollment analytics and historical insights for 500+ courses across 50+ departments.
- Designed and operated a multi-cloud production architecture (**Vercel**, **AWS** EB, **Supabase**, **Cloudflare**), implementing CI/CD pipelines, HTTPS reverse proxying, and achieving 100–200 ms average API response times.
- Implemented a scalable **REST API** (30+ endpoints) with DTO-based contracts, **JWT** authentication, **OAuth** 2.0 (PKCE), and role-based access control, with historical enrollment and grade data (6,000+ offerings).
- Optimized frontend performance and retention via **URL-based state management** to deliver 3 s initial page loads and 'shareable' searches.

EkantikSearch | *Live Demo* | *Github* **React | TypeScript | Flask | PostgreSQL | CI/CD**

- Increased search speed by 40% by migrating to modular REST APIs with Flask and PostgreSQL.
- Delivered a multilingual React dashboard supporting 900+ cultural categories with accessibility-first design.
- Implemented CI/CD pipelines with GitHub Actions for automated scraping, and deployment with **100% uptime**.

FormAssistAIExtension | *Github* **Chrome Extensions (MV3) | JavaScript | Agile | DOM Automation**

- Built a modular Chrome extension framework using JavaScript and **Manifest v3** to parse dynamic web forms into structured JSON and use **Gemini API** to provide AI-assisted form suggestions.
- Implemented a three-layer Extractor / Prompt / Applicator architecture to support site-specific adapters with preview/dry-run safeguards.
- Designed a **plug-in architecture** where developers can add custom Extractor, Prompt, and Applicator modules for new sites without changing core code.

UX Design - Delivery App | Figma **Balsamiq | Figma | Maze | UX Design | Usability Testing**

- Designed a DoorDash-like food delivery app prototype covering the full user flow from browsing to checkout.
- Improved task success rate from 62% to 91% through **Maze** testing iterative design.

Education

Simon Fraser University : 3.89 GPA **Expected Graduation: December 2027**

Bachelor of Computer Science *Canada*

- Deans Honour Roll: Summer 2024, Fall 2024, Spring 2025, Summer 2025

Technical Events and Competitions

Winner – Microsoft Ideathon 2025 **2025**
- Recognized by Microsoft for developing an innovative sustainability solution, pitching a carbon-footprint tracking tool to industry judges.

Participant – MLH Hackathons 2025 **2025**
- Engaged in LeetCode-style coding challenges and participated in live technical sessions covering cloud, AI, and modern web development trends.

Participant – CSS Hackathons 2024 **2024**
- Collaborated in a 24-hour hackathon to prototype a web app, practicing Agile sprints, pair programming, and Git workflows under real-world pressure.

Non-Technical Work Experience

SFU Annual Giving Student Caller **Jan 2024 – Present**
- Demonstrated emotional intelligence and active listening by building rapport with alumni and tailoring conversations to their interests and values.
- Applied persuasive communication and storytelling to articulate impact narratives that increased donor engagement and campaign success.
- Adapted messaging in real time by managing objections, addressing concerns, and maintaining professionalism under pressure.
- Collaborated in a performance-driven team environment by aligning outreach goals, sharing insights, and contributing to continuous improvement.

Leadership & Community Involvement

SFU FAS Student Ambassador **Jan 2025 – Present**
- Represented SFU's brand and values as a trusted point of contact at events, contributing to a welcoming and informed first impression.
- Facilitated meaningful conversations during tours and orientations, building connection and trust through empathy and clarity.
- Contributed to long-term student retention by fostering an inclusive, student-led culture of support and academic belonging.

SFU CS Peer Mentor **Sep 2024 – Dec 2024**
- Facilitated peer learning and collaboration by mentoring students in debugging, algorithm design, and foundational programming concepts.
- Fostered an inclusive, growth-focused environment by encouraging questions, reducing fear of failure, and supporting diverse learning styles.
- Demonstrated leadership and technical empathy by adapting explanations and guiding peers through logical problem-solving processes.