Manan Mehta

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EDUCATION

Simon Fraser University — Expected Graduation: May 2027
Bachelor of Science in Computer Science, 3rd year — *Burnaby, BC*
- **Undergraduate Scholarship Student**
- **Relevant Coursework**: Data Structures, Artificial Intelligence, Operating Systems, Software Engineering

EXPERIENCE

Software Engineer Intern — June 2025 - August 2025
Craft Silicon
- Engineered secure REST APIs using **Spring Boot** and **PostgreSQL** for insurance operations and mobile payment integration, reliably processing **500+** daily transactions enabling operations across multiple financial institutions
- Developed a technical documentation portal using **Angular** and **Node.js** to render AsciiDoc files styled with **Antora**, providing **50+** employees centralized access to project documentation across multiple codebases
- Executed a comprehensive **JUnit** testing suite with **85%** code coverage for API endpoints, reducing production bugs and maintenance overhead through automated unit and integration testing, accelerating feature delivery

Full-Stack Developer — January 2025 - April 2025
SFU Surge ⏻ ⬀
- Selected for a competitive development program, collaborating with a team of 4 to architect an AI-powered job matching platform aggregating **10,000+** postings via **JSearch API** using **React** and **OpenAI embeddings**
- Configured an intelligent matching system using **Named Entity Recognition** to extract skills from resumes and job descriptions then calculating **vector similarity** to generate personalized compatibility scores
- Designed a responsive frontend with real-time search filtering, job comparison views, and match percentage displays, enabling users to evaluate **50+** opportunities in under **10** minutes and reducing manual search time

Software Developer/ Frontend Lead — September 2024 - December 2024
CJSF 90.1FM
- Developed a responsive homepage and scheduling components in **Next.js**, collaborating with designers using **Figma** for UI/UX alignment to enhance functionality for a platform serving **1,000+** active users
- Integrated **Strapi CMS** to manage user accounts and scheduling data through REST APIs, reducing manual data handling by **70%** and enabling dynamic rendering of radio program schedules
- Formulated an interactive donation page using **CSS** Grid and React components, streamlining the donation funnel by reducing clicks-to-donate from **5 to 2** with the goal of increasing conversion rates by **20%**

PROJECTS

LibSafe | *Object detector for theft(over **200 users**)* | ⏻ ⬀ — **Python, vision AI, Flask, React, Twilio**
- Launched a real-time security monitoring system using Google Vision AI and Flask backend, achieving **90%+** accuracy in detecting and tracking a wide range of user belongings in study spaces for theft prevention
- Built a React web application enabling students to monitor belongings remotely with live camera feeds and receive instant alerts within **2 seconds** of detected movement, leveraging **REST APIs** for real-time polling
- Configured Twilio API to send automated SMS notifications when monitored objects are removed from view

SmartMind | *Journal app using real-time features and AI* | ⏻ — **Spring Boot, JUnit, Kafka, Redis**
- Crafted a journal application using Spring Boot and JWT authentication with **95%** test coverage via JUnit
- Incorporated an intelligent sentiment analysis system with MongoDB for journal storage and Apache Kafka for event-driven email notifications, automatically sending on a weekly basis
- Enabled distributed caching and messaging architecture using Redis improving application performance by **60%**

CloudSync | *Secure multi-user cloud storage* | ⏻ — **Java, Spring Boot, React, AWS S3**
- Built a scalable cloud storage application with AWS S3 integration, handling **10,000+** file uploads and downloads
- Implemented REST APIs with Spring Boot featuring **JWT authentication** and role-based access control
- Created a React frontend with drag-and-drop upload interface and design supporting concurrent file operations

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, C, C++, C#, HTML/CSS, SQL, Bash, Rust, MATLAB
Frameworks & Libraries: React, Next.js, Node.js, Express.js, Angular, Spring Boot, Pandas, TensorFlow, Jest
Tools & Technologies: Git, MongoDB, PostgreSQL, AWS S3, Docker, Redis, Kafka, Jenkins, Linux, TCP/IP
Methodologies: Agile/Scrum, Test-Driven Development, Code Reviews, CI/CD, Full-stack Development