

PUNEET NORTH

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EDUCATION

Simon Fraser University

Bachelor of Science, Computer Science

GPA: 3.60

Relevant Coursework: Data Structures & Algorithms, Computer Networking, Software Engineering, Database Systems

Apr 2027 (Expected)

Burnaby, B.C

TECHNICAL EXPERIENCE

SFU Computing Science Student Society

Web System Administrator

May 2025 - Present

Burnaby, B.C

- Maintain and optimize backend services for new.sfucsss.org using **FastAPI** and **PostgreSQL** for a student society of **900+** members.
- Configured **Nginx** as a reverse proxy to route traffic for test deployment environments, enhancing system modularity and enabling isolated testing.
- Co-led weekly development meetings to plan backend tasks, review PRs, and onboard contributors, improving response time on internal tool issues.

CJSF Radio 90.1

Software Developer

Apr 2025 - Present

Burnaby, B.C

- Automated and led the migration **10,000+** rows of structured data from a legacy **MySQL** database to a new CMS-backed instance, decreasing manual work by **50%**.
- Integrated new Strapi API with existing legacy Drupal infrastructure, reducing content update time by **15%** and simplifying editorial workflows

PROJECTS

Mock Interview Minesweeper Game | Python, FastAPI, MySQL, AWS S3, React, Google Gemini API



- Designed scalable **RESTful APIs** using **FastAPI** to manage game logic and session states, enabling seamless frontend-backend integration and supporting real-time updates.
- Optimized **MySQL** database queries and schema design to store game progress efficiently, achieving sub-100ms response times for critical operations and ensuring system reliability.
- Configured and integrated **AWS S3**, setting up storage buckets and automating object creation for managing game assets and data.

Mindstream AI | React, TailwindCSS, Node.js, Express.js, Firebase, Open AI API, Google Cloud



- Led a team of 4 in an **Agile** environment to build a platform with **70+** active users that turns lecture notes into interactive study tools.
- Built a backend architecture with **Node.js** and **Express.js**, integrated with **Firebase** for database management, enabling real-time data storage and retrieval.
- Streamlined a **CI/CD** pipeline with **GitHub Actions**, automating deployment and integrating **Jest** for testing, reducing manual deployment errors by **25%** and speeding up release cycles.
- Implemented UI components with **Tailwind CSS**, improving code maintainability and front-end consistency.

Rottify: AI Text-to-Video Generator | Next.js, TypeScript, Supabase, Docker, Perplexity AI API, FFmpeg



- Developed an AI platform using the **Perplexity AI API** to convert text into viral, TikTok-style video scripts, boosting engagement and clarity.
- Integrated **Supabase** for secure video and metadata storage, enabling efficient retrieval and playback.
- Containerized deployment with **Docker**, ensuring scalability and reproducibility across environments while reducing deployment times by **50%**.
- Designed and implemented **Next.js API** routes, handling input, metadata management and video processing using **FFmpeg**.

TECHNICAL SKILLS

Programming Languages: Python, C, C++, JavaScript, TypeScript, SQL, HTML, CSS

Frameworks & Libraries: React, Next.js, Node.js, Express.js, FastAPI, TailwindCSS

Developer Tools: Git/GitHub, AWS (S3, RDS), Firebase, MongoDB, PostgreSQL, MySQL, Postman, Docker, Linux (Ubuntu)

Concepts: REST APIs, CI/CD (Github Actions), Agile, MVC Design, Testing (Jest/JUnit)