Puneet North

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Education

Simon Fraser University   **Sep 2023 - Dec 2027 (Expected)**
Bachelor of Science in Computer Science   *Burnaby, B.C*
GPA: 3.60/4.33
Relevant Coursework: Data Structures & Algorithms, Software Engineering, Networking, Intro Artificial Intelligence, Database Management

Technical Skills

Programming Languages: MATLAB, 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, CRUD, MVC Design, Testing (Jest/JUnit)

Projects

Mock Interview Minesweeper Game | *Python, FastAPI, MySQL, AWS S3, React*   **Mar 2025**
- 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.

Rottify: AI Text-to-Video Generator | *Next.js, TypeScript, Supabase, Docker, Perplexity AI API, FFmpeg*   **Feb 2025**
- Developed an AI platform using the **Perplexity Sonar 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**.

Mindstream AI | *React, TailwindCSS, Node.js, Express.js, Firebase, Open AI API, Google Cloud*   **Dec 2024**
- Developed a study platform that transforms lecture notes into interactive tools (flashcards, quizzes, summaries, podcasts), improving accessibility and student engagement.
- Designed a responsive and user-friendly interface using **React** and **TailwindCSS**, driving a **30%** boost in user interaction.
- Built a backend architecture with **Node.js** and **Express.js**, integrated with **Firebase** for database management, enabling real-time data storage and retrieval.
- Implemented 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.

CraveIt | *React, TailwindCSS, Node.js, Express.js, Google Maps API*   **Oct 2024**
- Created a full-stack application to help users find dining options and recipes tailored to their preferences.
- Deployed **RESTful API** endpoints using **Express.js**, integrating **Google Maps API** for dynamic restaurant location search and **MealDB API** for tailored recipe recommendations

Experience

JYSK Canada   **Jul 2022 - Sep 2023**
Sales Colleague   *Delta, B.C*
- Delivered exceptional customer service by assisting shoppers with product selection and resolving inquiries, contributing to a **15%** increase in positive google reviews.
- Maintained accurate records of inventory and transactions, ensuring seamless store operations and reducing stock discrepancies by **10%.**
- Optimized store layout and displays to boost product visibility, resulting in an uplift in monthly sales.