Vineet Panchal

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⚙ Skills

Languages: Java, Python, JavaScript, TypeScript, C, C++, C#, SQL, HTML/CSS
Tools/Technologies: Next, React, Flask, Firebase, Express, Django, MongoDB, MySQL, PostgreSQL, Docker, SpringBoot
Certifications: Frontend Development Libraries, JavaScript Algorithms & Data Structures, Foundational C# With Microsoft

🎓 Education

Toronto Metropolitan University   Expected: April 2027
B.A.Sc. Computer Science
Relevant Coursework: Discrete Mathematics I, Computer Science I & II, Calculus I, Linear Algebra I, Probability and Statistics I, Data Structures, Intro To Unix, C, and C++, Discrete Structures, Comparative Programming Languages, Intro To Software Engineering, and Operating Systems I.

💼 Experience

Headstarter AI   July 2024 – Present
Software Developer Fellowship | Next, React, OpenAI, Stripe, Clerk, Firebase, Pinecone   *New York, NY*
> Spearheaded the development of 3 innovative AI-powered projects (Rate My Professor, Intelly, Fashion Disaster Avoider) and collaborated in a cross-functional team to present a final project to a startup (Teach For Cambodia).
> Actively engaged in a vibrant tech community, expanding professional networks, refining technical skills, and gaining real-world experience in coding and product development.
> Attended high-profile conferences, gaining industry insights from successful entrepreneurs and CEOs, and building valuable networking connections.

The Circle Lab   May 2024 – July 2024
Frontend Developer Internship | React, Typescript, Express, Node, MongoDB   *Toronto, ON*
> Designed and developed an engaging and informative website highlighting the organization's mission and impact. Delivered a seamless and high-quality UI/UX experience, receiving positive feedback for its functionality and design.
> Developed the backend functionality of the website using Node.js and Express.js and implemented MongoDB databases to manage user login and ensure secure data storage.

The Coding Club   Oct 2022 – June 2023
President & Teacher
> Created and implemented a comprehensive coding curriculum for students in grades 9-12, covering core topics in Python, Java, and JavaScript, fostering a strong foundation in software development.
> Oversaw the club's daily operations, fostered a collaborative and inclusive learning environment, and guided students through hands-on coding projects that enhanced their critical thinking and problem-solving skills.

⚗ Projects

Teach For Cambodia | *Next, React, Supabase, Typescript, Material UI*
> Built a teaching platform for Teach For Cambodia, a startup non-profit dedicated to expanding educational access to children nationwide.
> Implemented user communication between instructors, students, staff, and admin with Supabase and Google Authentication for secure access.

Intelly AI Flashcards | *Next, React, Firebase, OpenAI, Material UI, Clerk, Stripe*
> Created a web app that generates intelligent flashcards for educational use, enhancing learning experiences through personalized AI-driven content, using OpenAI's API.
> Integrated Clerk for user authentication, Firebase for data storage, and Stripe for secure payment handling.

Rate My Professor | *Next, React, Pinecone, OpenAI, Material UI*
> Built a comprehensive AI-powered assistant using Retrieval Augmented Generation (RAG), enabling students to receive real time, detailed feedback on professors and courses by integrating external knowledge bases.
> Streamlined user experience by integrating a vector database with a large language model for accurate responses.

Fashion Disaster Avoider | *Next, React, OpenAI, Material UI*
> Developed an AI-powered chatbot that offers real-time, brutally honest fashion advice to avoid style mishaps.
> Leveraged OpenAI to instantly deliver personalized feedback to users based on current trends.

A-Star Pathfinder Visualizer | *Python, Pygame*
> Designed an interactive visualizer for the A-Star pathfinding algorithm using Pygame, enhancing user understanding through dynamic demonstrations.