

Vineet Panchal

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⚙️ Skills

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

Tools/Technologies: Next, React, Flask, Firebase, Supabase, Express, MongoDB, MySQL, Tailwind, Figma, GitLab

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, 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.

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.

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.

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.