

# Avneet Singh Nijjer

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## EDUCATION

### • McMaster University

September 2024 - April 2028 (Expected)

Computer Engineering (B.Eng) - CO-OP - GPA: 3.7

Hamilton, Ontario

- **Relevant Coursework:** Principles of Programming, Data Structures & Algorithms, Microprocessor Systems, Logic Design, and Circuit Analysis, Operating Systems and Databases

## PROJECTS

### • LetMeKnock: Real Estate Platform

April 2025 - September 2025

Tools: React, TypeScript, Tailwind, Supabase and more



- Built a full stack housing platform used by **20+ student testers**, streamlining property search and landlord-tenant communication.
- Implemented **real-time chat** and **interactive map-based search (Leaflet)**, reducing average property discovery time by **22%**.
- Designed scalable landlord dashboards for property management, payment tracking, and analytics.
- Delivered a responsive UI with secure **Supabase authentication** and backend implementations.

### • Personal Portfolio

February 2025 - March 2025

Tools: TypeScript, Next, React, TailwindCSS, JavaScript, Firebase, Git



- Designed and developed a fully responsive personal portfolio website using Next.js, React.js, and TailwindCSS, optimizing for both desktop and mobile experiences
- Implemented **dynamic routing** and efficient state management to showcase projects, skills, and professional achievements seamlessly.
- Leveraged TypeScript and **Git** for robust code structure and version control, ensuring maintainability and scalability of the project.

### • Boggle

October 2024 - December 2024

Tools: Java



- Designed and implemented a fully functional Boggle word game in Java, incorporating **object-oriented programming principles**.
- Implemented efficient search and validation using **binary search trees**, enhancing performance in word recognition.
- Added advanced features (undo, timer, tracking) demonstrating clean code structure and re-usability.

## EXPERIENCE

### • Toronto District School Board

September 2023 - June 2024

Coding Instructor

Etobicoke, Ontario

- Taught students **Java, Python, and Scratch**, simplifying complex programming concepts for diverse learners.
- Designed lesson plans and debugged student code in real time, fostering problem-solving and teamwork.
- Introduced real-world software development concepts such as modular design, reusability.
- Provided technical troubleshooting and individualized support, building adaptability and strong communication skills.

## SKILLS

- **Programming Languages:** Python, C/C++, HTML/CSS, JavaScript, TypeScript, MATLAB, LaTeX
- **Databases & Backend:** Supabase, Firebase, MongoDB
- **Frameworks/Libraries:** Next, React, TailwindCSS, numPy, OpenCV, YOLO, Text-to-Speech, LangChain
- **Hardware:** Arduino, Quanser Technologies, Lego Robotics, Microcontrollers
- **Tools:** GitHub, Git, Figma, VS Code, MatLab, Microsoft Office (Excel, Teams, Outlook, Word, PowerPoint), AnsysGranta, AutoCAD, PrusaSlicer, MacOS, Windows, Linux