John Nguyen

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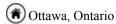
PROFILE

Bachelor of Computer Science graduate from Carleton University with 8 months of Software Developer experience at BlackBerry through a co-op placement. Since graduating, I've been actively developing my professional coding skills by building a range of small to mid-sized personal projects, focusing on practical problem-solving and continuous learning. I'm open-minded, adaptable, and eager to learn new skills to grow within any role.

EDUCATION

Carleton University, Ottawa *September 2019 – May 2024*
Bachelor of Computer Science (Honours)

- In-depth understanding in Discrete Structure, Web Applications, Computer System Security, and Distributed OS
- Proficient in multiple programming languages (Python, Java, C, C++, JavaScript, HTML), with confidence and experience in database management

APPLIED PROJECTS

Schematic Component Extractor (Ongoing Research Project) *March 2025 - present*

- Developing an AI-assisted tool to extract and count electrical components from schematic PDFs/Images
- Integrating LLMs with text processing to handle inconsistent formats and improve accuracy
- Currently focused on refining prompt design and improving parsing reliability for diverse schematics

Twitch-inspired Streaming Simulator (Personal Project) *January 2025*

- Developed a Twitch-inspired streaming simulator featuring a fully interactive UI with simulated viewers and dynamic chat interactions
- Implemented screen sharing and YouTube embed support, enhancing the realism of the streaming experience
- Designed an extensive chat control system with multiple commands, allowing for customizable viewer behavior and moderation

Interactive Ubuntu Terminal Simulator (Personal Project) *October 2024*

- Developed a fully functional Ubuntu terminal simulator with JavaScript, HTML, and CSS, featuring a dynamic GUI and realistic command-line behavior for an intuitive user experience
- Implemented over 10 commonly used Unix commands, providing natural behavior and functionality consistent with an authentic terminal, enhancing the realism of the simulation

PROFESSIONAL EXPERIENCE

BlackBerry QNX (Kanata, Ontario, CAN) *May 2022 – Dec 2022*
Software Developer (Co-op/Internship)

- Focused on **Unix**, **Linux OS**, **Bash scripting**, **Python scripting**, and **C programming**
- Tested compatibility of over 300 **GNU** commands and their flags in BlackBerry's **QNX** OS
- Performed bug testing on 40+ "verification" JIRA tickets and resolved over 20 JIRA bug tickets from testers and BlackBerry customers
- Developed **Python log parser** to extract and convert data from over 250,000 test logs on internal report server database into easily readable format

SKILLS

Languages: Python, Java, C, C++, BASH, Shell, HTML, CSS, JavaScript, MatLab, Lisp, SQL
Frameworks: Node.js, Qt
Tools: Pytest, TKinter, GDB/PDB, Git, SQLite, RESTful API, Linux, Windows OS, Oracle VM VirtualBox, CVAT, YOLO