

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
- Integrated 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