John Nguyen

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EDUCATION
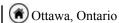
Carleton University, Ottawa   *September 2019 – May 2024*
Bachelor of Computer Science (Honours)
- In-depth understanding in Discrete Structure, Web Applications, Computer System Security, and Distributed OS
- Proficient in multiple programming languages (Python, Java, C, C++, JavaScript, HTML), with confidence and experience in database management

APPLIED PROJECTS

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

Static HTML Portfolio (Personal Project)   *September 2024*
- Developed a static HTML portfolio website hosted on GitHub Pages to showcase projects, professional experience, and personal background
- Customized a free HTML/CSS template to implement responsive design and interactive features, enhancing user experience with minimal modifications
- Integrated project details, skills, and contact information into a clean, structured layout for professional visibility

Sudoku Game/Solver (Personal Project)   *August 2024*
- Developed 2 versions of Sudoku game with Graphical User Interface using Python and JavaScript/HTML
- Employed an advanced backtracking algorithm combined with real-life Sudoku penciling techniques to instantly solve any Sudoku board

PROFESSIONAL EXPERIENCE

BlackBerry QNX (Kanata, Ontario, CAN)   *May 2022 – Dec 2022*
Command Line Tools (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