Kevin Van Nguyen

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ABOUT

Systems-focused software developer based in Vancouver, BC with over three years of experience building performant and reliable software in C, Go, and TypeScript. My work spans distributed systems, network protocols, backend services, and developer tooling, with an emphasis on correctness, scalability, and clean system design. I'm motivated by solving complex technical problems and creating software that is both efficient under the hood and intuitive to use.

PROJECTS

DBTUI | Terminal UI Database Manager Tool | *Go, SQLite*
- Designed and developed solo in one day for **BCIT HTTP Hacks 2025**, awarded **Best UI/UX**.
- Built an intuitive terminal interface to create, view, and edit SQLite databases directly from the CLI.
- Significantly improved API testing and development workflows through rapid data inspection and modification.

Terminal Chat System | Distributed Systems Application | *C, Ncurses, CMake*
- Designed a custom network protocol compliant with RFC Internet Protocol standards for real-time messaging.
- Developed robust client-server architecture with automated recovery, error handling, and protocol validation.
- Built comprehensive test suites and ensured interoperability across multiple independently developed clients and servers.

Network Royale | Terminal-Based Networked Multiplayer Game | *C, Ncurses, SDL2, CMake*
- Final project demonstrating networking fundamentals including serialization, concurrency, and multiplexing.
- Implemented real-time multiplayer communication with a terminal-based UI and optional gamepad support.
- Extended core requirements with additional gameplay features to enhance user interaction.

Flynt | Full-Stack Web Application | *Go, TypeScript, NextJS, SQLite, React, Tailwind, Docker, Nginx*
- Built a habit-streak tracking platform with social features inspired by Snapchat and Strava.
- Designed and Implemented the API, frontend, and database with full **self-hosted deployment** on a VPS.
- Managed containerization, reverse proxying, and production configuration for a scalable deployment.

Assignment Starter | Industry Client Sponsored Project | CLI Tool | *JavaScript, NodeJS, React, YAML, Graphviz, Docx*
- Developed a CLI tool that generates project skeletons, documentation, and optional finite state machine diagrams from YAML input.
- Automated creation of testing, design, report, and user guide templates to meet BCIT submission standards.
- Reduced project setup time and improved consistency for student developers.

TECHNICAL SKILLS

Languages: C/C++, Go, TypeScript, JavaScript, Python, Java, SQL, Bash, Lua
Web & UI: ReactJS, NextJS, HTML, CSS, TailwindCSS, Figma
Systems & Tooling: Linux, NodeJS, Docker, Git, CMake, Nginx, Neovim
Databases: SQlite, MongoDB, Supabase

WORK EXPERIENCE

Lab Proctor | Systems Administrator | British Columbia Institute of Technology   Sept 2025 - Present
- Developed and tested automation scripts to simultaneously re-image 30+ lab machines weekly, improving reliability and turnaround time.
- Collaborated with BCIT Computing faculty to automate system configuration and integrity checks across instructional lab environments.
- Supported maintenance of Linux systems, ensuring consistent, secure, and reproducible lab setups.

Assistant General Manager | Steve's Poke Bar   Sept 2021 - Aug 2024
- Created initiatives for promoting sales and employee skill development while systematically handling supply management.

EDUCATION

British Columbia Institute of Technology (BCIT) | Set Representative

Bachelor of Science, Applied Computer Science | Network Security Applications Development   Sept 2025 - April 2027
Computer Systems Technology Diploma | Data Communications & Internetworking | Distinction   Sept 2023 - May 2025