

Benson (Yanbo) Xiao

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[GitHub](#) [LinkedIn](#) [bensonxiao.me](#)

SKILLS

- **Languages:** C/C++, Python, JavaScript/TypeScript, HTML/CSS, Bash
- **Frameworks & Libraries:** Next.js, Tailwind CSS, Node.js, Flask, Chart.js, Discord.js, Octokit.js
- **Tools & Platforms:** Git, Docker, Docker Compose, Drone CI, Linux, X11, Nginx, Caddy

EXPERIENCE

- **Customer Support Agent - Windscribe** Sep – Dec 2025
Windscribe Limited Remote
 - **Network Troubleshooting:** Applied networking fundamentals (**networking protocols, DNS**) to diagnose and resolve VPN connectivity issues; configured virtual machines to reproduce and test client-side failures.
 - **Automation Tooling:** Designed and implemented a **JavaScript browser extension** to automate high-frequency support operations, reducing average task completion time by **80%**.

PROJECTS

- **WhoWillPay Expense Tracker** GitHub Feb – Apr 2025
 - **Algorithm:** Implemented weighted random payer selection ($O(n)$) with **Python**; reduced payer-decision clicks from 10 to 1, turning 3-min discussions into a 2-second button press.
 - **Visualization:** Integrated a **Chart.js**-based dashboard (pie chart) with responsive UI; maintained **80 ms** average API latency.
 - **Backend:** Built RESTful APIs using **Flask** backed by a **SQLite** schema to manage user expenses with consistent data integrity.
- **GIToday Discord Bot** GitHub Sep – Dec 2025
 - **Bot Development:** Developed a Discord bot in **TypeScript** and **Node.js** using **Discord.js** to automatically deliver daily GitHub activity reports to organization channels.
 - **Data Aggregation:** Collected and processed commit activity from the **GitHub API** using **Octokit.js** to rank contributors within a GitHub organization over a rolling 24-hour window.
 - **API Orchestration:** Orchestrated multiple **third-party APIs** (GitHub, Discord, OpenAI) to generate and publish structured, readable summaries without manual intervention.
- **CI/CD Automation with Drone & Docker** Sep – Oct 2025
 - **CI Workflow:** Configured and used **Drone** CI pipelines integrated with **Git** repositories to trigger automated builds on push and merge events.
 - **Containerization:** Used **Docker** and **Docker Compose** to build and run containerized services, ensuring consistent environments across development and deployment.
 - **Infrastructure Management:** Managed containerized services and deployment configurations through **1Panel**, including service control and environment management.
- **C++ Chess** GitHub Jul – Aug 2025
 - **Systems & Graphics:** Built a chess game in **C++20** using low-level **X11** graphics, implementing a custom rendering loop without external game engines.
 - **Architecture & Events:** Developed modular game logic and an event-driven input pipeline, separating game state, move execution, and rendering for maintainable gameplay flow.
- **GreenGroup Web Page** GitHub Demo Dec 2025
 - **Frontend UI:** Built a style-focused web page using **Next.js** with its file-based routing system, implementing responsive layouts and page navigation.
 - **Styling:** Designed and refined the UI using **Tailwind CSS**, emphasizing visual consistency, spacing, and reusable utility-based styles.

EDUCATION

- **University of Waterloo** Waterloo, ON
Honours Bachelor of Computer Science Sep 2024 – Apr 2029 (expected)