

# Neo Hyldelund

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## Summary

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Full-stack developer with experience in React, Next.js, Node.js, and Python. Adept at building responsive UIs, integrating REST APIs, and deploying modern, maintainable apps. Prioritizes accessibility, code quality, and user experience, shipping projects that scale across devices and browsers.

## Education

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### Simon Fraser University

*Bachelor of Science in Computing Science*

Data Structures & Algorithms, Software Engineering, AI & Machine Learning

Burnaby, BC

*Expected 2027*

## Personal Projects

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### Personal Portfolio Website | [GitHub](#) | [Website](#) | *NextJS / TailwindCSS*

Jun. 2025 - Pres.

Clean, mobile-optimized personal site showcasing projects and code samples.

- Increased user engagement by ~40% by integrating interactive 3D elements using Three.js and React Three Fiber to create an immersive landing experience.
- Improved performance by reducing 3D asset size by 40% through custom shader optimization and geometry simplification.
- Accelerated build time by 60% by implementing dynamic imports and static route generation in Next.js, streamlining deployment and dev workflows.

### Hands-Off | [GitHub](#) | *Python / Faster-Whisper / Porcupine / Spotipy*

Jul. 2025 - Pres.

Designed a privacy-first voice assistant using real-time transcription and voice command recognition.

- Enabled 100% hands-free music control via wake word and GPT-assisted command parsing.
- Deployed hybrid async pipeline for <250ms voice response latency.
- Supported 20+ voice intents including playback, playlist switching, and volume control.

## Academic Projects

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### Grow-the-Hoard | [GitHub](#) | *Java / Maven / OpenGL / LDtk / JUnit*

Jan. - Mar. 2025

Collaborated on a team of 4 to develop a top-down maze game with intelligent enemy behavior.

- Wrote core logic and pathfinding using A\* on custom level formats (LDtk).
- Achieved 100% unit test coverage with JaCoCo; CI-tested using GitHub Actions.
- Presented to a class of 80+ with live gameplay demo and source code walkthrough.

## Technical Skills

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**Languages:** JavaScript, Python, C++, Java, SQL

**Frontend:** React, Next.js, TailwindCSS

**Backend:** Node.js, Express, REST APIs

**APIs:** Spotipy, Whisper, OpenAI

**Tools:** Git, Postman, VS Code, JIRA

# Neo Hylde

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**Databases:** MongoDB, PostgreSQL, MySQL

**Concepts:** Asynchronous programming, responsive design, accessibility, performance profiling