

Neo Hyldelund

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Education

Simon Fraser University

Bachelor of Science in Computing Science

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

Burnaby, BC

Expected 2027

Personal Projects

Doom Clone 3D Game | [GitHub](#) | C++ / OpenGL / GLM / GLTF / A* / JSON

Jul. 2025 - Pres.

Created an original rendering engine with fully integrated movement and pathfinding

- Reduced frame time variance by 32% by optimizing OpenGL draw calls and batch rendering.
- Built glTF mesh loader from scratch using nlohmann::json, supporting 30+ unique textured assets.
- Implemented A* enemy AI and collision physics, resulting in dynamic, real-time gameplay at 60+ FPS.

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

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.

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

Languages: JavaScript, TypeScript, Python, C/C++, Java, SQL

Frameworks & Libraries: React, Next.js, Node.js, Express, TailwindCSS

Databases: MongoDB, PostgreSQL, MySQL

Tools: Git, Postman, JIRA, VS Code

Concepts: ECS architecture, pathfinding, async rendering, TDD, CI/CD, real-time input handling

Experience

Vancouver Olive Oil Company | Sales Associate | *Vancouver, BC*

Feb. 2023 - Jun. 2023

- Educated customers on over 30 specialty products, boosting product trial rates and driving a 20% increase in bundled purchases.

Coop SuperBrugsen | Sales Associate | *Copenhagen, Denmark*

Jul. 2020 - Apr. 2021

- Supported a multilingual customer base by providing service in English, Danish, and Russian enhancing customer satisfaction in a high-volume retail environment.