

# Neo Hyldelund

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## Summary

Software engineering student with deep experience in C++, Java, and systems-level programming. Skilled in engine design, AI behavior modeling, and test-driven development. Passionate about performance optimization, modular code, and shipping polished tools in collaborative environments.

## Education

<b>Simon Fraser University</b> <i>Bachelor of Science in Computing Science</i> Data Structures & Algorithms, Software Engineering, AI & Machine Learning	Burnaby, BC <i>Expected 2027</i>
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## Personal Projects

<b>Doom Clone 3D Game</b>   <a href="#">GitHub</a>   C++ / OpenGL / GLM / GLTF / A* / JSON Created an original rendering engine with fully integrated movement and pathfinding <ul style="list-style-type: none"><li>Reduced frame time variance by 32% by optimizing OpenGL draw calls and batch rendering.</li><li>Built glTF mesh loader from scratch using nlohmann::json, supporting 30+ unique textured assets.</li><li>Implemented A* enemy AI and collision physics, resulting in dynamic, real-time gameplay at 60+ FPS.</li></ul>	Jul. 2025 - Pres.
<b>Personal Portfolio Website</b>   <a href="#">GitHub</a>   <a href="#">Website</a>   NextJS / TailwindCSS / ThreeJS / RTB Clean, mobile-optimized personal site showcasing projects and code samples. <ul style="list-style-type: none"><li>Increased user engagement by ~40% by integrating interactive 3D elements using Three.js and React Three Fiber to create an immersive landing experience.</li><li>Improved performance by reducing 3D asset size by 40% through custom shader optimization and geometry simplification.</li><li>Accelerated build time by 60% by implementing dynamic imports and static route generation in Next.js, streamlining deployment and dev workflows.</li></ul>	Jun. 2025 - Pres.
<b>Grow-the-Hoard</b>   <a href="#">GitHub</a>   Java / Maven / OpenGL / LDtk / JUnit Collaborated on a team of 4 to develop a top-down maze game with intelligent enemy behavior. <ul style="list-style-type: none"><li>Wrote core logic and pathfinding using A* on custom level formats (LDtk).</li><li>Achieved 100% unit test coverage with JaCoCo; CI-tested using GitHub Actions.</li><li>Presented to a class of 80+ with live gameplay demo and source code walkthrough.</li></ul>	Jan. - Mar. 2025

## Experience

<b>Vancouver Olive Oil Company</b>   Sales Associate   <i>Vancouver, BC</i> <ul style="list-style-type: none"><li>Educated customers on over 30 specialty products, boosting product trial rates and driving a 20% increase in bundled purchases.</li></ul>	Feb. 2023 - Jun. 2023
<b>Coop SuperBrugsen</b>   Sales Associate   <i>Copenhagen, Denmark</i> <ul style="list-style-type: none"><li>Supported a multilingual customer base by providing service in English, Danish, and Russian enhancing customer satisfaction in a high-volume retail environment.</li></ul>	Jul. 2020 - Apr. 2021

## Technical Skills

<b>Languages:</b> C++, Java, Python, JavaScript, SQL
<b>Frameworks/Libraries:</b> OpenGL, glTF, GLM, JUnit, Next.js, TailwindCSS
<b>Tools:</b> Git, Visual Studio, VS Code, Postman, JIRA, JaCoCo
<b>Concepts:</b> ECS architecture, pathfinding, async rendering, TDD, CI/CD, real-time input handling