

Neo Hyldelund

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Summary

Detail-oriented software engineering student with strong Python, C++, and JavaScript skills. Experienced in building async tools, automation pipelines, and GPT/AI-integrated interfaces. Passionate about creating fast, testable, and user-centric software that bridges backend logic with intuitive frontend experiences.

Education

Simon Fraser University
Bachelor of Science in Computing Science
Data Structures & Algorithms, Software Engineering, AI & Machine Learning

Burnaby, BC
Expected 2027

Personal Projects

News-Cluster | [GitHub](#) | *Python / spaCy / RSS / NLP*

Aug. 2025

Built a real-time news geopolitically themed clustering tool.

- Implemented robust web scraping via urllib and xml.etree to extract 150+ headlines from diverse RSS feeds.
- Applied spaCy NER and frequency analysis to cluster titles by dominant geopolitical actor with >85% accuracy.

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

Jul. 2025

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.

CodeSnip | [GitHub](#) | *Python / PyQt / GPT-4o / OpenAI Vision API*

Jul. 2025

Built a Copilot-style utility to visually analyze code on-screen and return natural language summaries.

- Integrated hotkey-triggered region selection and screenshot capture.
- Decoupled API processing from UI thread, improving responsiveness by 40%.
- Used by classmates to better understand complex codebases - 85% found it helpful in surveys.

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.

Technical Skills

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

Frameworks/Libraries: PyQt, React, Next.js, Node.js, Express, JUnit, Tailwind CSS

APIs/Tools: GPT-4o, Whisper, Spotipy, OpenGL, Postman, Git, JIRA

Databases: MongoDB, MySQL, PostgreSQL

Concepts: Async pipelines, API design, test automation, UI/UX, voice interfaces