

Connor Knoetze

Curriculum Vitae

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Personal Statement

I am genuinely curious about how software is built and motivated by learning through hands-on experience. I enjoy problem-solving, experimenting with new ideas, and steadily improving my skills by asking questions and applying feedback.

I have experience with programming technologies such as Python, Java, HTML, CSS, JavaScript, and I am comfortable picking up new tools when needed. While I know I am still at the beginning of my development journey, I take pride in writing clean, readable code and understanding why something works rather than rushing to an answer. When I get stuck, I research carefully, test ideas, and ask thoughtful questions to move forward.

What I bring most strongly to any role is my attitude and eagerness to contribute to real-world development work, continue learning, and grow within a professional software development team. I value clear instructions, constructive feedback, and collaboration with more experienced developers. I work well in team environments, listen carefully, and enjoy contributing where I can while continuing to build my skills.

I am reliable, switched-on, and committed to putting in the effort required to improve every day.

Education

2024–Present **Bachelor of Science (Computer Science)**, *University of Auckland*,

Relevant coursework: Algorithms and Data Structures, Discrete Structures in Mathematics and Computer Science, Computer Architecture, Software Development Methodologies, Data Communications and Security, Object Oriented Software Development, Statistics

2020 - 2022 **NCEA Level 1-2-3**, *Long Bay College*

Projects

Pet Social Media With help from two contributors, I developed a full stack social media platform where the purpose is for pet accounts to be the main contributors. It uses a Flask backend, Jinja/HTML/CSS/Javascript front end. with a development SQLite database and SQL Alchemy ORM with plans to move to a Google Cloud Database for the deployment version.

Recipes Website In a team of 3, I developed a full stack website using a Flask backend, Jinja powered front end and SQLite database with SQL Alchemy ORM. We followed Agile Methodologies and adhered to proper software development practices to produce a professional minimal viable product in 60 days of development.

Personal Portfolio Designed and deployed a responsive personal website using NextJS and Tailwind CSS.

Password Manager Developed a secure password management and storage application in Java featuring a Swing-based GUI. The system integrates a custom AES-256-CBC command-line encryption utility which I built using C and employs image steganography via OpenStego to securely encrypt and store user passwords. Users can efficiently search, decrypt, and view their passwords using a single master key.

E2EE Group Chat App Developed a secure, peer-to-peer group chat application designed for local area networks. It features end-to-end encryption (E2EE) using Curve25519 (via PyNaCl) and supports both CLI and GUI clients.

Others Projects See my GitHub or portfolio for more of my projects.

Experience

2023 **Kitchen Staff / Driver, Hell Pizza**

- Responsible for the opening and closing of the store, working shifts. My duties also included on many occasions managing the store alone

Skills

Programming Python, Java, C, SQL, TypeScript

Tools Git, Linux, VS Code, Jet Brains Suite, Flask, SQL Alchemy, Jinja, NextJS, PyGame, Java Swing

Interests

Open-source development, Extreme Programming, Cyber-Security, Low Level Systems, DSA, Networking, AI, Outdoors, Cars, Dirt Bikes