

Connor Knoetze

Computer Science Student / IT & Technology

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Professional Profile

I am a Computer Science student at the University of Auckland, graduating in November 2026, with broad practical experience across software, computer systems, databases, networking, security, and cloud-based technology. Through my university studies, personal projects, and freelance work, I have gained hands-on experience building, configuring, deploying, troubleshooting, and maintaining technical solutions.

I have a strong foundation in Windows and Linux environments, computer hardware and peripherals, operating-system installation and configuration, VMware, networking, databases, web technologies, version control, and information security. I enjoy investigating technical problems methodically, learning how systems work, and finding practical solutions. I am also comfortable explaining technical concepts to both technical and non-technical people.

I am highly motivated to build a career in IT and am particularly interested in systems, infrastructure, networking, cybersecurity, cloud technologies, automation, and technical problem solving. I enjoy learning new technologies and would welcome the opportunity to contribute to an IT team while continuing to develop my technical skills.

Education

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

Relevant coursework: Algorithms & Data Structures, Computer Architecture, Computer Organization, Data Communications & Security, Cybersecurity, Object-Oriented Software Development, Large Scale Software Development, Software Development Methodologies, Computer Graphics & Image Processing, Statistics.

2020–2022 **NCEA Level 1–3**, *Long Bay College*

Professional Development

2025–2026 **Mentee**, *Summer of Tech Mentorship Programme*, Auckland, New Zealand

- Selected to participate in a small-group technology mentorship programme with John Baddeley, Chief Technology Officer at the Reserve Bank of New Zealand.
- Gained insight into technology leadership, professional development, career pathways, and the transition from university into the technology industry.
- Developed my professional and communication skills through discussions around technical development, career planning, and working in the technology industry.

Technical Skills

Operating Systems	Windows, Linux, operating-system installation and configuration, Linux development environments, VMware
Hardware	PC assembly and configuration, CPUs, GPUs, PCs, laptops, peripherals, hardware troubleshooting
Networking & Security	Networking fundamentals, data communications, information security fundamentals, secure software development, encryption, cybersecurity concepts
Programming	Python, Java, JavaScript, SQL, C, C++
Web & APIs	HTML, CSS, Flask, Next.js, Jinja, REST APIs, HTTP, JSON
Databases	PostgreSQL, SQLite, SQLAlchemy ORM, relational database design, SQL querying, data modelling
Cloud & Infrastructure	Cloud deployment, web hosting, Vercel, Render, DNS, custom domains, environment configuration, Cloudflare

Development Tools	Git, GitHub, VS Code, JetBrains IDEs, Maven, Gradle, Java Swing
Technical Practices	Troubleshooting, debugging, testing, requirements gathering, documentation, Agile development, version control, problem analysis
AI & Emerging Technology	ChatGPT, GitHub Copilot, AI-assisted analysis, debugging, technical research, code generation

Technical Projects

Freelance **Business Website**

- Worked directly with a commercial client to understand requirements, identify business needs, and deliver a production-ready digital solution.
- Designed, developed, tested, deployed, and maintained the website using Next.js, JavaScript, HTML/CSS, and modern web technologies.
- Configured third-party services including Resend and Cloudflare Turnstile and managed deployment through Vercel.
- Managed custom domain and DNS integration, performed SEO optimisation, troubleshoot issues, and implemented revisions based on stakeholder feedback.
- Independently managed the project from requirements gathering through deployment and final delivery. Website: <https://haurakiengineering.co.nz>

Personal **Shopping List Helper**

- Designed, developed, tested, deployed, and maintained a full-stack web application using Python, Flask, PostgreSQL, SQLAlchemy, JavaScript, HTML, and CSS.
- Designed relational database schemas and implemented backend application logic and REST APIs.
- Developed responsive user-facing functionality and database-driven workflows.
- Used Linux, Git, debugging, testing, and cloud deployment workflows throughout development.
- Focused on reliability, maintainability, data integrity, and practical usability. GitHub: <https://github.com/ConnorKnoetze/shopping-list-helper> Website: <https://pantry.connorknoetze.com>

Personal **Password Manager**

- Developed a Java desktop password-management application using Swing and object-oriented programming.
- Implemented encrypted credential storage, file handling, search functionality, and secure encryption/decryption workflows.
- Built a custom AES-256-CBC encryption utility in C and integrated image steganography using OpenStego.
- Applied secure development principles, debugging, testing, modular design, and reliability-focused problem solving. GitHub: https://github.com/ConnorKnoetze/Password_Manager

Team Project **Pet Social Media Platform**

- Collaborated with two contributors to develop a full-stack social media platform using Flask, SQLAlchemy, Jinja, HTML, CSS, JavaScript, and Supabase PostgreSQL.
- Implemented backend functionality, database models, and responsive frontend features.
- Used Git-based collaborative development workflows and Agile practices to implement and refine features. GitHub: https://github.com/ConnorKnoetze/Pet_Social_Media

Team Project **Recipe Management Website**

- Worked in a team of three to develop a full-stack recipe management application using Flask, Jinja, SQLite, and SQLAlchemy.
- Followed Agile development practices including iterative planning, collaboration, feature implementation, debugging, testing, and version control.
- Delivered a functional MVP within a 60-day development cycle. GitHub: <https://github.com/ConnorKnoetze/235-recipe-website>

Employment Experience

2022–2023 **Kitchen Staff / Driver, Hell Pizza**

- Provided customer service, handled orders and payments, and responded to customer enquiries in a fast-paced environment.
- Responsible for opening and closing store operations and independently managing shifts when required.
- Developed strong communication, reliability, adaptability, time management, and problem-solving skills.
- Worked effectively with team members while managing competing priorities and maintaining service quality under pressure.

Professional Strengths

Technical Problem Solving Methodical approach to investigating technical problems, identifying causes, testing solutions, and improving systems.

Troubleshooting Comfortable investigating software, system, configuration, and technical issues through structured problem solving and research.

Communication Able to explain technical concepts clearly and communicate with both technical and non-technical stakeholders.

Adaptability Quick to learn unfamiliar technologies and tools and comfortable working in changing technical environments.

Ownership Experience independently taking projects from requirements gathering through implementation, troubleshooting, deployment, and maintenance.

Collaboration Experience working independently and in Agile teams using Git-based workflows, stakeholder feedback, and iterative development.

Interests

IT Infrastructure, Networking, Cybersecurity, Cloud Technologies, Databases, Automation, Artificial Intelligence, Low-Level Systems, Open-Source Development, Technology and Innovation, PC Hardware, Software Development