

# DYLAN TO



[dct0.vercel.app](https://dct0.vercel.app)



[dct0](https://github.com/dct0)



[dylancto](https://www.linkedin.com/in/dylancto)



[dylan.to@hotmail.com](mailto:dylan.to@hotmail.com)

## Volunteer/Work Experience

### Volunteer Project Helper & Committee Tech Lead @ Coders For Causes

Perth, WA | Jun 2022 — Present

*Next.js, Firebase, Prisma, Postgres, AWS (SES, S3), Vitest*

- Worked in a team of 17 to deliver a Progressive Web App (PWA) using Next.js and Firebase for the organisation *Pets of Older Persons*
- Led a team of 16 as tech lead to plan and deliver a web platform using Next.js and Prisma for the organisation *Repair Lab*
- Assisted in the organisation of the CFC x InfoSys hackathon and WHACK hackathon in collaboration with WesCEF and Microsoft.

### Research Intern @ University of Western Australia

Perth, WA | Jul 2022 — Nov 2022

*Python, PyTorch, YOLOv5, RoboFlow, LabelBox*

- Assisted in the creation of a machine learning model capable of automated bee pollen detection and tracking from a microscope camera feed of flowing honey
- Labelled and analysed data using RoboFlow and LabelBox for training and discussion with the research team

### Graduate Software Engineer @ Genvis

Perth, WA | Feb 2023 — Feb 2024

*Vue 3, Express.js, AWS (ECR, ECS, S3, Lambda), MongoDB, Mocha*

- Worked in tandem with senior backend developer to build critical frontend and backend features on time
- Improved communication skills through pair programming sessions and feature-oriented developer/product design teams in an agile environment
- Improved API codebase quality by significantly increasing test coverage with Chai/Mocha

### IT Support Officer @ System Health Lab (UWA)

Perth, WA | Jan 2024 — Present

*Linux, Nginx, Docker, Cloudflare*

- Manages and maintains applications deployed on the VPS and infrastructure
- Assisting in the deprecation of legacy in-house systems and migration to stable modern solutions

## Projects

### UniNote | Mar 2023 — Jun 2023

*Flask, Jinja, Socket.IO, SQLAlchemy (SQLite3)*

- Application allowing students to chat in real-time with peers and teachers, and create and share notes all in one place
- REST API built in Python, using SQLAlchemy to store user, notes and message data in a SQLite3 database

### Human Livestocks | Sep 2023 — Present

*Next.js, TRPC, Sapphire, Prisma, Postgres, Redis*

- Discord bot and website for automatically tracking server member sentiment and activity
- Messages are analysed and scored to create a "human" stock price for each member

## About Me

An all-rounded and motivated 4th year Software Engineering student with a passion in web development, music and languages. On a mission to make a difference.

## Skills

### Programming Languages

JavaScript/TypeScript • Java  
• Python • C

### Server/Web

Node.js • Next.js/React • Vue  
• Firebase • AWS • Flask

### Database

Postgres • MongoDB  
• Firestore • SQLAlchemy  
• Prisma • Drizzle • Redis

### Tools

Git • Docker • Bitbucket • Jira  
• Jest/Vitest • Playwright

### Operating Systems

Mac • Windows • Linux

### Languages

English • Japanese (limited)

## Education

### Rossmoyne Senior

**Highschool** | 2015 — 2020

Honours Student

• **99.1** ATAR

### University of Western

**Australia** | 2021 — 2024

Bachelor of Philosophy

(Honours) (Engineering Science)

• Double Major in Software

Engineering and Music

Performance