DYLAN TO

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Volunteer/Work Experience

Project Helper @ **Coders For Causes**

Perth, WA | Jun 2022 — Jul 2022 | Nov 2022 — Feb 2023

Next.js (TypeScript), Firebase

— 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*

— Designed and developed a majority of the app's frontend

— Led and mentored a group of 3 other developers to deliver crucial features on time

Committee Member & Tech Lead @ **Coders For Causes**

Perth, WA | Mar 2023 — Present

— Assisted in the organisation of the CFC x InfoSys hackathon and WHACK hackathon in collaboration with Westfarmers and Microsoft.

— Led a team of 16 to deliver a web app using Next.js and Prisma for the organisation *Repair Lab*

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 — Present

Vue 3, Node.js (Express.js), AWS (ECR, ECS, S3, Lambda), MongoDB, Kafka, Mocha, Tailwind

— Developed key features in Vue 3 for the release of an AI-accelerated forensic analysis tool

— Assisted in the migration of backend from PostgreSQL (TypeORM) to MongoDB (Mongoose)

— Improved API codebase quality by significantly increasing test coverage using Mocha

— Worked to build critical frontend features in the face of tight deadlines

— Improved communication skills through pair programming sessions and feature-oriented developer/product design teams in an agile environment

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

Typescript, Discord.js, Prisma, Postgres

— 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 highly motivated 3rd year Software Engineering student with a strong passion in web development, music and languages. Keen make a real difference in the world.

Skills

Programming
JavaScript/TypeScript • Java • Python • C

Server/Web
Node.js • Firebase • React/Next.js • Vue • AWS ECR/ECS/S3 • Flask • REST • HTML/CSS

Database
Postgres • MongoDB • Firestore • SQLAlchemy • Prisma

Tools
Git • Docker • Office • Bitbucket/Jira

Operating Systems
Windows • Mac • Ubuntu

Languages
English • Japanese

Education

Rossmoyne Senior Highschool | 2015 — 2020
Honours Student
• **99.1** ATAR

University of Western Australia | 2021 — Present
Bachelor of Philosophy (Honours) (Engineering Science)
• Double Major in Software Engineering and Music Performance
• **6.88** GPA