

# JENUL FERDINAND

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Australian Citizen, Knoxfield, VIC

## EDUCATION

Bachelor of Computer Science (Advanced) from Monash University in Clayton, Victoria

In Progress

## PROJECTS

### Student Reporting System for Digimaker | *Google Apps Script, HTML, CSS, JavaScript*

- Architected & implemented an automated system using Google Apps Script that allows teachers at Digimaker across 50+ schools to give weekly feedback for their students, and at the end of the term generating high quality reports for all students enrolled in the program.
- Worked around the limitations of the technology to offer a zero-cost solution to student reporting for the company.

### MonSTAR | *MongoDB, Express, Angular, ngx-graph, Node.js, Caddy, Docker, Akamai Cloud, Cloudinary CDN* [Link](#)

- An accessible web application built for Monash University students to browse and review classes to take. Currently sitting at over 200+ unique reviews given by students across numerous faculties.
- Developed the backend using Node.js, Express, and MongoDB, implementing Google OAuth and RESTful API endpoints.
- Developed the frontend using Angular utilising ngx-graph to present course progression in a directed graph format.
- Delegated tasks for team members during development, utilising Jira for project management, ensuring completion before semester one of 2025.
- Populated our MongoDB Atlas database using scraped course and unit data from the Monash Unit Handbook.

## WORK HISTORY

### Programming Tutor

October 2024 – Present

*Digimaker - Programming for Young Makers*

*Eastern Suburbs, VIC*

- Teaching weekly Python, Java, C & JavaScript classes to primary school students across 8 different schools, achieving an average 90% in-class completion rate for my students.
- Used supplied lesson sheets to break down core programming concepts, allowing students to independently complete each coding challenge.
- Schools: Leibler Yavneh College, McKinnon PS, Ruskin Park PS, Mulgrave PS, ...

## VOLUNTEERING

### Projects Lead

April 2024 – Present

*Faculty of Information Technology Society*

*Clayton, VIC*

- Leading the development of projects that benefit the student community at my university.
- Mentoring team members with full-stack development with a primary goal of creating a productive and inclusive team environment.
- Oversee project timelines using Jira, defining & monitoring issues, epics, and sprint goals.

### Monash Innovation Guarantee

January 2025

*UNICEF/Hashcode*

*Docklands, VIC*

- Took part in the 3-week innovation sprint offered by Monash University to conceptualise and pitch a secure SaaS architecture for UNICEF's uSupport platform. Awarded with a HD final grade.

### Computer Science YouTube Channel

July 2023 – Present

*@ferdinandcoding*

*Online*

- Produced educational videos on algorithms, data structures, and theoretical CS.
- Grew channel to over 600 subscribers and accumulated 350K+ views.
- Simplified Computer Science topics for a broad audience via short form and long form content.

## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript, TypeScript, HTML/CSS/SCSS, Golang, SQL, JSX, Kotlin.

**Technologies:** React, React Native, Next.js, Angular, Node.js, Docker, MongoDB, PostgreSQL, Flask, Express

**Tools:** Git, NPM, Yarn, Powershell, Linux, VS Code, RegEx, Leetcode, Firebase, GCP, AWS, Oracle SQL Developer, Jira.

**Libraries:** pandas, numpy, matplotlib, manim, ngx-graph, RxJS, Socket.IO, JUnit, Jasmine.

**UI Libraries:** Bootstrap, Material-UI, PrimeNG, ChakraUI, NextUI, Ant Design, Tailwind CSS, Shadcn UI

**Concepts:** Algorithms, Data Structures, Theoretical CS, Full-Stack Development, CI/CD, DevOps, Database Management.