# 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*
- Deliver weekly Python, Java, C & JavaScript classes to primary students across 8+ schools, achieving a 100% completion rate of curriculum-aligned projects.
- Teaching high-level programming (Java, Python, C, JavaScript) to primary school students.
- Enhance problem-solving skills and logical thinking in students.

## 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.
- Overseeing project timelines using Jira, ensuring timely and quality delivery.

**Monash Innovation Guarantee**                                                                 January 2025
*UNICEF/Hashcode*                                                                              *Docklands, VIC*
- 3-week sprint to pitch to industry professionals.
- Designed a new technical architecture for UNICEF's SaaS platform.

**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.