Sai kumar Murali krishnan

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Software Engineer and Data Scientist

EDUCATION

Monash University   Expected December 2023
Bachelor of Applied Data Science Honours   *Melbourne, VIC*
- WAM/GPA: 85
- Coursework: Data science related projects, algorithms and data structures and applied mathematics
- Achievements: Dean's List Award for academic excellence, Summer and Winter Research scholarships

EXPERIENCE

Data Science Intern   July 2022 – Present
DiGiCOR
- Led a team of four to develop a dashboard for sales data analysis in Streamlit, pulling data from NetSuite's REST API to improve the productivity of the DiGiCOR sales team

Winter Research Assistant   June 2022 – July 2022
Monash University
- Devised a genetic programming framework for a game theoretic problem via simulation in Julia **here**
- Coordinated with a professor to investigate scientist journal dynamics using the above framework

Summer Research Assistant   November 2021 – January 2022
Monash University
- Wrangled commit diffs from over 30,000 deep-learning libraries using GitHub's REST API in Python
- Extraction, tagging, and inference of evolution of popular deep-learning libraries with spaCy

Co-founder and Tutor   February 2020 – Present
Contour Education
- Prepared mathematics worksheets for over 100 students undertaking the VCE
- Developed and presented three mathematics workshops for secondary schools
- Creation of software in the Wolfram Mathematica language for over 300 students

COMMUNITY & LEADERSHIP

Events Director   March 2021 – Present
Monash Association of Coding (MAC)
- Taught 4 coding workshops totalling over 200 attendees in Python - FastAPI, discord.py, and web development
- Ran 15 weekly mock technical interviews with LeetCode in preparation for software-development roles
- Managed MAC x Hacksprint, a two-week hackathon with over 200 participants

PROJECTS

Mini Melbourne | *Fullstack, Live data, React, Mapbox, FastAPI*   GitHub - DevPost
- A live train map of Melbourne, built during UniHack 2022, winning the PwC Data Analytics prize
- Built using FastAPI for backend, serving real-time train data of upto 150 trains

SETool | *Data Visualisation, Python, Scraping, Dash, Plotly, Heroku*   GitHub - Site
- A web dashboard for comparing course reviews, used by over 1000 students

uwucode | *Language Design, Rust*   GitHub
- A toy programming language designed in Rust, with a homemade parser to learn about language design

TECHNICAL SKILLS

Languages: Python, C/C++, R, Rust, MATLAB, Java, Wolfram Mathematica
Libraries: Data science (Pandas, NumPy, SciPy, PyTorch, Seaborn, Streamlit), FastAPI, Dash/Plotly
Mathematics: Graph Theory, Computational methods, Optimisation and Operations Research, Linear Algebra, Calculus + Analysis, Statistics