

Sai kumar Murali krishnan

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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

EXPERIENCE

Winter Research Assistant

June 2022 – July 2022

Monash University

Melbourne, VIC

- Devised a genetic programming framework to a game theoretic problem via simulation in Julia [here](#)
- Coordinated with a professor to gradually investigate feasibility of studying function valued traits to study scientist journal dynamics

Summer Research Assistant

November 2021 – January 2022

Monash University

Melbourne, VIC

- Scraped and wrangled commit diffs from over 30,000 deep-learning libraries using GitHub's REST API
- Extraction, tagging, and inference of evolution of popular deep-learning libraries

Co-founder and Tutor

February 2020 – Present

Contour Education

Melbourne, VIC

- Prepared mathematics worksheets for over 100 students undertaking the VCE
- Taught mathematics for high school students, including preparing and running paid workshops for schools
- Creation of software in the Wolfram Mathematica language for nearly 100 students

COMMUNITY & LEADERSHIP

Events Director

March 2021 – Present

Monash Association of Coding (MAC)

Melbourne, VIC

- Assisted and taught 4 coding workshops totalling over 150 attendees
- Ran over 24 weekly LeetCode sessions in which mock technical interviews were conducted
- Employed data analytics to target effective workshop strategies and aid with future planning of events
- Assisted with a two-week hackathon involving over 200 contestants, involved communication with teams, setting up and presenting events and judging submission

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 to serve data, with React rendering the data with Mapbox

SETool | *Data Visualisation, Python, Scraping*

GitHub - Site

- A web-based visualisation tool for comparing units, coded in Python and Dash

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, Wolfram Mathematica

Libraries: Data science (Pandas, NumPy, SciPy, PyTorch, Seaborn), FastAPI, Dash/Plotly,

Mathematics: Graph Theory, Computational Mathematics, Linear Algebra, Real+Complex Analysis, Multivariate Calculus, Abstract Algebra, Optimisation and Operations Research