

# Sai kumar Murali krishnan

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## EDUCATION

### Monash University

Expected December 2023

*Bachelor of Applied Data Science Honours*

*Melbourne, VIC*

- WAM/GPA: 84
- Coursework: Data science related projects, algorithms and data structures and applied mathematics

## EXPERIENCE

### Research Assistant

November 2021 – January 2022

*Monash University*

*Melbourne, VIC*

- Scraped and wrangled commit diffs from over 30,000 deep-learning libraries
- Extraction and inference of evolution of popular deep-learning libraries
- Experience with AutoML technologies such as AutoKeras and NAS

### 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