

# VANDAM DINH

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[GitHub.com/vandamd](https://github.com/vandamd)  
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## EDUCATION

**University of Bristol**  
Engineering Mathematics, MEng  
First Year: 72% (First class)

2021 – Present

Relevant Modules: Engineering Mathematics, Mathematical and Data Modelling, Computer Programming, Discrete Mathematics, Engineering Science, Signals and Systems, C for Embedded Systems, Introduction to Data Science

**Merchant Taylors' Boys' School**, Crosby, Liverpool  
A-Levels: Further Mathematics, Mathematics, Design & Technology, Physics - A\*A\*A\*A  
GCSEs: 9A\*s, 2As

2009 – 2021

## RELEVANT PROJECTS

**Personal Website**  
([GitHub Link](#)) | ([vandam.tech](http://vandam.tech))

January 2023

- Created a static website using Zola and hosted it on GitHub Pages, using Actions to automate the generation of new blog posts and pages upon pushing updates.
- Implemented a dynamic feature that displays recent listening activity using the Last.fm API and Javascript. This feature regularly calls the API to retrieve scrobbling data and displays the current or most recent track being played.
- Utilised CSS and a custom colour scheme to enhance the visual design of the site.

**COVID-19 Data Visualisation**, Project Leader  
([GitHub Link](#))

March 2022 – May 2022

- Coordinated the development of an interactive site displaying COVID-19 metrics of the UK with Python, Plotly and Dash.
- Designed the site using FigJam, encouraging collaboration to formulate new ideas from other team members.
- Implemented callback functions for cities and time range so plots automatically update based on user input.

**Modelling the growth of Douglas Fir**, Project Leader  
([GitHub Link](#))

March 2022 – May 2022

- Developed differential equations that related the change in a tree's height with its metabolism, and iterated to increase accuracy.
- Established the report's structure and distributed parts to team members using Google Docs.
- Oversaw and assisted with merging research and development with figures generated from Maple to create a cohesive report in LaTeX.

**Optimising the connections of Telecommunication Networks**, Project Leader  
([GitHub Link](#))

January 2022 – March 2022

- Compiled algorithms that found the minimum spanning tree of a network, applied it to a real-world scenario and determined the most suitable method.
- Worked on explaining the algorithms, drawing figures with Inkscape and developing a Python function that generated a weighted graph given the coordinates of nodes using NetworkX.
- Assessed and processed the works of others from Google Docs into Overleaf.

**Home Media Server**

June 2022 – September 2022

- Converted an old computer into a home server, installed Ubuntu and deployed media-centric applications via Portainer in Docker.
- Implemented remote access with Nginx and Duck DNS, allowing for hi-res audio files to be streamed.

## WORK EXPERIENCE

**General Assistant**, Charlie Chans Takeaway, Liverpool

May 2017 – September 2019

- Organised and prepared ingredients for the chef and arranged inventory for uninterrupted service.
- Provided exceptional service that contributed to several 5-star reviews on Google.
- Connected with staff members to create a fun and positive working environment.

**Volunteer**, Crosby Library, Liverpool

May 2017 – August 2017

- Familiarised, maintained and organised a large catalogue of books.
- Inspected computers and provided help to the public and staff members with technical support.

## SKILLS AND INTERESTS

**Programming:** Python, LaTeX, HTML, macOS, Linux

**Python Libraries:** Pandas, Plotly, Dash, Matplotlib, NetworkX, SymPy

**Tools:** Git, Docker, Heroku, Overleaf, Anaconda, Jupyter, Maple, MATLAB, Inkscape, Obsidian, Notion, Microsoft Office

**Hobbies:** Wild camping, Photography, Guitar, Mechanical Keyboards, Music Production