

ETHAN HARGROVE

[phone number redacted]

ethanhargrove99@gmail.com ◇ [linkedin.com/in/ethan-hargrove](https://www.linkedin.com/in/ethan-hargrove) ◇ www.ethanhargrove.com

EDUCATION

MSc Computer Science, University of Bath

10/2022 - 10/2023

- Global Leaders Scholarship Recipient.
- Relevant Modules: Agile Software Engineering, Databases, Artificial Intelligence, and Reinforcement Learning.

HBSc Planetary Science Specialist with Mathematics Minor, University of Toronto

9/2018 - 4/2022

- Relevant Modules: Computational Physics, Time Series Analysis, Combinatorics and Discrete Mathematics.
- Grade: Distinction (79% or 3.28 GPA)

PROJECTS

Flask Web Application

8/2022 - PRESENT

- Built a personal website using the Flask framework to display my personal projects. ([View website](#)) ([View code](#))

Planetary System Modelling for Exoplanet Classification

9/2021 - PRESENT

- Built a Python program to model the transit times of planetary systems, and match them to the observed transit times of exoplanets. ([View explanation](#)) ([View code](#))
- An expansion of my undergraduate research project, where I researched and developed algorithms to improve speed whilst maintaining accuracy. ([View paper](#))

PROFESSIONAL DEVELOPMENT

Customising Your Models with TensorFlow 2

7/2022

Coursera - Imperial College London ([View certificate](#))

- Implemented lower level APIs in TensorFlow to develop complex model architectures, fully customised layers, and a flexible data workflow.
- Developed a custom neural German/English translation model from scratch.

Getting Started with TensorFlow 2

6/2022

Coursera - Imperial College London ([View certificate](#))

- Used the Sequential API to build, train, evaluate, validate, regularise, implement callbacks, load, and save various deep learning models.
- Developed an image classifier deep learning model for the Street View House Numbers (SVHN) dataset.

Front-End Web UI Frameworks and Tools: Bootstrap 4

5/2022

Coursera - The Hong Kong University of Science and Technology ([View certificate](#))

- Utilized Node.js, NPM, Grunt, and Gulp to setup and manage websites.
- Applied skills learned to design and style responsive web pages for my personal website using Bootstrap. ([View website](#)) ([View code](#))

Applied Machine Learning in Python

4/2022

Coursera - University of Michigan ([View certificate](#))

- Applied various supervised learning method to real-world data using Scikit-learn.
- Identified the best algorithm needed for a given problem, and engineered features to meet that need.

SKILLS

Programming Languages

Python, Java, C, Julia, and SQL.

Libraries, Frameworks, & Tools

NumPy, Pandas, TensorFlow, Keras, Scikit-learn, Matplotlib, Git, and Flask.