

Henry Forrest

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EDUCATION

University of Exeter

Exeter, UK

BSc (hons) Computer Science - Grade 2:1 - 68%

June 2025

- Dissertation: **An AI Powered Trading Platform Using Reinforcement Learning** with real-time portfolio visualisation and market prediction using PPO
- Relevant Modules: Nature-Inspired Computation, Algorithms, HPC, Network Security, Software Dev, C Programming

Tanglin Trust School

Singapore

A Levels

June 2022

- Computer Science: A* | Mathematics: A* | Economics: A* | EPQ: A

GCSEs

June 2020

- 10 GCSEs Grades A*-B (9-6) | including Mathematics: 8, Further Mathematics: 8, English Literature: 7, English Language: A

TECHNICAL PROJECTS (more on github & portfolio)

[Ticket Marketplace](#)

2024

- Developed a secure Django-based web app for peer-to-peer ticket resale for student club nights
- Implemented filtering by venue/date to boost engagement via a simple UX-first design

[Microservice Voice Assistance \(Alexa\)](#)

2025

- Developed a working Alexa microservices system using Flask
- Enabled voice querying of local weather and other data with scalable microservice architecture

[Physics Based Game Engine](#)

2025

- Programmed a projectile motion simulator for educational use, applying real-world physics and vector maths
- Reinforced knowledge of game loops, event handling, and OOP in Python

PROFESSIONAL EXPERIENCE

Tanglin Trust School Hackathon (Guest Judge)

Singapore

Virtual internship

September 2024

- Assessed 15+ student-built apps based on code quality, feasibility, and innovation
- Provided technical feedback on UX/UI, scalability, and API integration

Deloitte Technology Job Simulation

Online

Virtual internship

November 2023

- Built a Tableau dashboard for a simulated client using business KPIs and Excel-based data wrangling
- Presented insights and proposed improvements to a hypothetical client's data pipeline

OTHER EXPERIENCE AND LEADERSHIP

Tanglin Trust School

Singapore

Pastoral Prefect

August 2020 - April 2021

- Coordinated morning enrichment for 20+ younger students; built mentoring and leadership capabilities
- Liaised with academic staff to ensure student wellbeing and academic progress

Tanglin Trust School

Singapore

Infant School Assistant

May 2019

- Supported daily classroom operations and developed strong communication, patience, and multitasking skills

TECHNICAL SKILLS

- **Languages:** Python (advanced), Java (intermediate), C (advanced), C++ (intermediate), SQL (advanced)
- **Tools & Libraries:** Numpy, Matplotlib, Pandas, Flask, Pygame, Git, yFinance, Tensorflow
- **Web Dev:** Django, HTML/CSS, REST APIs

Personal Interests: Rugby | Personal Fitness | Chess | Golf | Guitar