

# Anss Hameed

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[LinkedIn](#) | [Online Portfolio](#) | [GitHub](#)

## EDUCATION

### University of Bristol | BSc Computer Science

Sept 2022 – Aug 2025

- **Predicted:** 1<sup>st</sup> Class Degree
- **Key Modules:** Functional, Imperative, Object-Oriented, Concurrent & Distributed Programming, Discrete Maths, Architecture, Software Tools, Algorithms, Data-Driven Computer Science, Cyber & Networks, Machine Learning

### St Brendan's Sixth Form College | A Levels

Sept 2019 – Aug 2021

- Mathematics (A\*), Computer Science (A\*), Business (A\*), EPQ (A)

### Downend Secondary School | GCSEs

Sept 2017 – Aug 2019

- 9 GCSEs A\* - B – Including Mathematics (A) and English Language (A)

## Experience

### Bank of America | Software Engineering Intern (Electronic Cash Equity Trading)

June – Aug 2024

- Solved client trading production issues in OMS by troubleshooting FIX protocol discrepancies, enhancing trading stability.
- Automated load testing with **Python** and **Bash** reducing testing time by **94%**, from 24 hours to 90 minutes, now adopted globally by QA teams across the bank.
- Added features to FIX testing software using **Java** and **AMPS middleware** to improve Prod to QA testing accuracy.

### Alfa Financial Software | Technology Intern

July 2023

- **Technology consultancy** - tackled customer queries and advised on how to optimize software usage for business needs.
- Enhanced **UI/UX** of Alfa's software using **HTML/CSS/JS** and developed Java software for asset finance company.

### Pyng | Software Developer (Start-Up)

Mar – Aug 2023

- Optimised mobile payment transactions, improving transfer speed and UX, including seamless bill splitting.
- Leveraged **React Native** to elevate app UI/UX and developed Python-based transaction calculator.

### upReach | Tech 500 Associate

Mar 2023 – Present

- Selected as a high potential undergraduate to join an accelerated professional development programme.
- **Tech500 Bootcamp 2023 Highlights:**
  - **G-Research:** Developed Python solutions to optimize decision-making in auction bidding challenge.
  - **Reply Group:** Integrated **Google Cloud** tools for machine learning and cloud storage, tailoring solutions to client needs.
  - **JMAN:** Assumed Data Science role for a client project; extracted and cleaned data using **Power BI**, **Excel**, and Python Libraries (**NumPy**, **Pandas**).

### University of Bristol | STEM Outreach Ambassador & Teaching Assistant

Mar 2023 – Present

- Delivered Python and GCSE Maths lessons to disadvantaged students at a local secondary school.
- Taught two **Discrete Maths** modules (**Linear Algebra**, **Probability & Statistics**, **Combinatorics**, **Analysis**) and mentored 'Software Engineering Project' to first- and second-year undergraduates.

## Projects

### AI Social Media | Product Manager, Client Liaison & Developer (SpaceNXT Labs)

Sept 2023 – May 2024

- Implemented **Stable Diffusion** for AI-driven image generation, integrated **OpenAI API** for dynamic caption generation and utilized Google's API for trend analysis.
- Developed **Vue.js** front-end with back-end API integration for Twitter (X) and LinkedIn automated posting.
- Orchestrated agile development as product manager for a team of 5 and liaised with SpaceNXT Labs CEO.

### Parallelised Game of Life Simulation (AWS Distributed)

Oct – Dec 2023

- Utilised **Go distributed** processing on **AWS EC2** to improve efficiency by benchmarking **algorithmic performance** and identifying bottlenecks using **CPU profiling**.
- Optimised network communication via **publish/subscribe model** ensuring fault tolerance and scalability.

### Scotland Yard AI Boardgame (Game Design)

Jan - May 2023

- Developed AI agent to play digital version of Scotland Yard boardgame using **Java**.
- Applied '**minimax game tree**' and '**alpha-beta pruning**' algorithms to optimize AI bot's winning performance.

### Utopian World Simulation (Hackathon Game Design)

Feb 2023

- Used **C#** and **Blender** to model real-world environments adapting to geographical and political variables.

### Mandelbrot Fractal Set (Interactive Mathematical Modelling Tool)

Sept 2020 – April 2021

- Utilised **NumPy** for efficient calculations and **SQL** for data management, including a Julia Set extension.

## Skills & Achievements

**Programming Languages:** Python, Java, C, Go, Haskell, HTML/CSS/JS, React, TypeScript

**Technical Skills:** Git, Data Structures, Algorithms, Architecture, SQL, Linux, Imperative, Functional, Concurrent, Distributed and Object-Oriented programming, Quasar, Jira, JSON, Bash, Vim, AWS

**Spoken Languages:** English, Hindi, Urdu

**Achievements:**

- **Bristol Plus Award:** Recognised among the top 5% University of Bristol students for outstanding work experience and extracurricular achievements. Mar 2024
- **'Bristol Scholar' & Access to Bristol:** Selected by sixth form as a high-performer in academia which granted me access to exclusive opportunities at the University of Bristol. Sept 2021 – Present
- **WeBuyAnyCar Sales Manager:** Consistent top performer across South-West, Wales and Midlands, leading in car purchases and bonuses. Jan – Sept 2022