

# Anss Hameed

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## EDUCATION

<b>University of Bristol   BSc Computer Science</b> <ul style="list-style-type: none"><li><b>Predicted:</b> 1<sup>st</sup> Class Degree</li><li><b>Key Modules:</b> Machine Learning (NN, MCMC, SVMs, Scikit, PyTorch), Functional, Imperative, Object-Oriented, Concurrent &amp; Distributed Programming, Discrete Maths, Software Tools, Algorithms, Data Science, Cyber &amp; Networks</li></ul>	<i>Sept 2022 – Aug 2025</i>
<b>St Brendan's Sixth Form College   A Levels</b> <ul style="list-style-type: none"><li>Mathematics (A*), Computer Science (A*), Business (A*), EPQ (A)</li></ul>	<i>Sept 2019 – Aug 2021</i>
<b>Downend Secondary School   GCSEs</b> <ul style="list-style-type: none"><li>9 GCSEs A* - B – Including Mathematics (A) and English Language (A)</li></ul>	<i>Sept 2017 – Aug 2019</i>

## EXPERIENCE

<b>Bank of America   Software Engineering Intern (Electronic Cash Equity Trading)</b> <ul style="list-style-type: none"><li>Solved client trading production issues in OMS by troubleshooting FIX protocol discrepancies, enhancing trading stability.</li><li>Automated load testing with <b>Python</b> and <b>Bash</b> reducing testing time by <b>94%</b>, from 24 hours to 90 minutes, now adopted globally by QA teams across the bank.</li><li>Added features to FIX testing software using <b>Java</b> and <b>AMPS middleware</b> to improve Prod to QA testing accuracy.</li></ul>	<i>June – Aug 2024</i>
<b>University of Bristol   Quant Analyst (Bristol Trading Society)</b> <ul style="list-style-type: none"><li>Developing predictive <b>option pricing model</b> in Python using NNs, capturing complex patterns in market data.</li><li>Using <b>Scikit</b> with <b>hyperparameter tuning</b> and <b>cross-validation</b> to enhance accuracy in dynamic market environments.</li></ul>	<i>Oct 2024 – Present</i>
<b>Alfa Financial Software   Technology Intern</b> <ul style="list-style-type: none"><li><b>Technology consultancy</b> - tackled customer queries and advised on how to optimize software usage for business needs.</li><li>Enhanced <b>UI/UX</b> of Alfa's software using <b>HTML/CSS/JS</b> and developed Java software for asset finance company.</li></ul>	<i>July 2023</i>
<b>Pyng   Software Developer (Start-Up)</b> <ul style="list-style-type: none"><li>Optimised mobile payment transactions, improving transfer speed and UX, including seamless bill splitting.</li><li>Leveraged <b>React Native</b> to elevate app UI/UX and developed Python-based transaction calculator.</li></ul>	<i>Mar – Aug 2023</i>
<b>upReach   Tech 500 Associate</b> <ul style="list-style-type: none"><li>Selected as a high potential undergraduate to join an accelerated professional development programme.</li><li><b>Tech500 Bootcamp 2023 Highlights:</b><ul style="list-style-type: none"><li><b>G-Research:</b> Developed Python solutions to optimize decision-making in auction bidding challenge.</li><li><b>Reply Group:</b> Integrated <b>Google Cloud</b> tools for machine learning and cloud storage, tailoring solutions to client needs.</li><li><b>JMAN:</b> Data Science role for a client project; extracted data using <b>Power BI</b>, <b>Excel</b>, and Python (<b>NumPy</b>, <b>Pandas</b>).</li></ul></li></ul>	<i>Mar 2023 – Present</i>
<b>University of Bristol   STEM Outreach Ambassador &amp; Teaching Assistant</b> <ul style="list-style-type: none"><li>Delivered Python and GCSE Maths lessons to disadvantaged students at a local secondary school.</li><li>Taught two <b>Discrete Maths</b> modules (<b>Linear Algebra</b>, <b>Probability &amp; Statistics</b>, <b>Combinatorics</b>, <b>Analysis</b>) and mentored 2 groups of 6 (first- and second-year undergraduates) for 'Software Engineering Project'.</li></ul>	<i>Mar 2023 – Present</i>

## PROJECTS

<b>AI Social Media   Product Manager, Client Liaison &amp; Developer (SpaceNXT Labs)</b> <ul style="list-style-type: none"><li>Implemented <b>Stable Diffusion</b> for AI-driven image generation, integrated <b>OpenAI API</b> for dynamic caption generation and utilised Google's API for trend analysis.</li><li>Developed <b>Vue.js</b> front-end with back-end API integration for Twitter (X) and LinkedIn automated posting.</li><li>Orchestrated agile development as product manager for a team of 5 and liaised with SpaceNXT Labs CEO.</li></ul>	<i>Sept 2023 – May 2024</i>
<b>Parallelsed Game of Life Simulation (AWS Distributed)</b> <ul style="list-style-type: none"><li>Utilised <b>Go distributed</b> processing on <b>AWS EC2</b> to improve efficiency by benchmarking <b>algorithmic performance</b> and identifying bottlenecks using <b>CPU profiling</b>.</li><li>Optimised network communication via <b>publish/subscribe model</b> ensuring fault tolerance and scalability.</li></ul>	<i>Oct – Dec 2023</i>
<b>Scotland Yard AI Boardgame (Game Design)</b> <ul style="list-style-type: none"><li>Developed AI agent to play digital version of Scotland Yard boardgame using <b>Java</b>.</li><li>Applied '<b>minimax game tree</b>' and '<b>alpha-beta pruning</b>' algorithm to optimize AI bot's winning performance.</li></ul>	<i>Jan - May 2023</i>
<b>Utopian World Simulation (Hackathon Game Design)</b> <ul style="list-style-type: none"><li>Used <b>C#</b> and <b>Blender</b> to model real-world environments adapting to geographical and political variables.</li></ul>	<i>Feb 2023</i>
<b>Mandelbrot Fractal Set (Interactive Mathematical Modelling Tool)</b> <ul style="list-style-type: none"><li>Utilised NumPy for efficient calculations and <b>SQL</b> for data management, including a Julia set extension.</li></ul>	<i>Sept 2020 – April 2021</i>

## SKILLS & ACHIEVEMENTS

<b>Programming Languages:</b> Python, Java, C, C++, Go, Haskell, HTML/CSS/JS, React, TypeScript	
<b>Technical Skills:</b> Git, Data Structures, Algorithms, Architecture, SQL, Linux, Imperative, Functional, Concurrent, Vim, AWS, Distributed and Object-Oriented programming, Quasar, Jira, JSON, Bash, Scikit-learn, PyTorch	
<b>Spoken Languages:</b> English, Hindi, Urdu	
<b>Achievements:</b> <ul style="list-style-type: none"><li><b>Bristol Plus Award:</b> Recognised among the top 5% University of Bristol students for outstanding work experience and extracurricular achievements.</li><li><b>'Bristol Scholar' &amp; Access to Bristol:</b> Selected by sixth form as a high-performer in academia which granted me access to exclusive opportunities at the University of Bristol.</li><li><b>WeBuyAnyCar Sales Manager (Full-Time Role):</b> Consistent #1 performer across South-West, Wales and Midlands, leading in car purchases and bonuses along with leading 6 branches across Bristol and training new recruits.</li></ul>	<div><i>Mar 2024</i></div> <div><i>Sept 2021 – Present</i></div> <div><i>Jan-Sept 2022</i></div>