

# Abdul Fofanah

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## EDUCATION

### University of York

BSc (Hons) Computer Science with Artificial Intelligence (with a year in industry)

York, England

09/24 - 06/28

### Dagenham Park Church of England School

3 A-levels + EPQ

Grades: A in Economics, B in Mathematics, B in Computer Science + A in Extended Project Qualification

London, England

09/16 - 06/23

10 GCSEs

Grades: Computer Science (8), Drama (8), Mathematics (7), Biology (7), Chemistry (7), Physics (7), History (7), English Language (6), English Literature (5), Spanish (5)

## SKILLS

- Programming Languages: Python, Java, C++, HTML, CSS
- Concepts: Data Structures & Algorithms, Object-Oriented Programming, Foundational knowledge of Machine Learning concepts (neural networks, neuroevolution), Data Visualisation (pandas, matplotlib)
- Tools & Technologies: Git, Visual Studio Code, Windows 11, Linux Mint, JSON & CSV Data Processing

## PROJECTS

### Market-Data-Pipeline

08/25

GitHub: [github.com/AbdulFofanah/Market-Data-Pipeline](https://github.com/AbdulFofanah/Market-Data-Pipeline)

- C++ (Data Producer) - Built a CSV reader to ingest raw intraday market data (OHLCV) and convert it into structured JSON Lines (JSONL), enabling downstream processing in later pipeline stages
- Java (Data Processor) - Implemented a JSONL parser with Gson and applied a rolling-window moving average (sliding window algorithm) to generate trading signal CSVs, demonstrating application of algorithms to financial data
- Python (Data Visualizer) - Developed visualisation scripts using pandas and matplotlib to produce time-series plots and summary statistics, enabling clearer interpretation of signals

### Human-Computer Interaction - University Coursework Project

09/24 - 01/25

- Collaborated in a team to design, prototype, and evaluate a user-focused software product in Figma, applying user testing, interface design, and accessibility standards
- Utilised fundamental Figma skills to support design and prototyping, while adapting to evolving requirements and demonstrating initiative, technical adaptability, and teamwork
- Delivered a prototype and documentation aligned with Norman's Design Principles through independent research and coordination, overcoming scheduling challenges

## WORK EXPERIENCE

### Kainos - Work Experience Intern & Code Camp Participant

05/22 - 08/22

- Built static websites using HTML & CSS, applying core frontend development principles like layout design, media integration, and semantic structure
- Conducted penetration testing on a live environment (OWASP Juice Shop), executing SQL injection and Cross-Site Scripting (XSS) attacks to demonstrate proficiency in cybersecurity vulnerabilities
- Explored foundational machine learning concepts and techniques, including neural networks and neuroevolution, to build a practical understanding of how intelligent systems are designed and constructed

### Ezoic - Work Experience Intern

05/22 - 08/22

- Designed and launched a fully functional WordPress website, customising the layout and site structure with templates and plugins to align with principles of user experience (UX) design and SEO
- Collaborated with Ezoic developers to optimise site performance and accessibility, building a practical foundation in frontend development and content management
- Gained hands-on experience in a live deployment environment, solving real-world problems and applying knowledge of digital publishing and web technologies

### Cisco - Work Experience Intern

06/22

- Collaborated in a team to pitch a winning, data-backed technical solution to Cisco professionals in a Dragon's Den-style innovation challenge
- Honed technical communication skills by researching, structuring, and presenting a proposal to industry experts
- Gained insight into industry workflows, technical roles, and collaboration in a professional tech environment

## EXTRA-CURRICULAR ACTIVITIES & INTERESTS

- Personal achievements: Represented the University of York as an amateur boxer, winning my first bout and demonstrating discipline, mental resilience, and an ability to perform under pressure
- Professional skills: Developed strong communication, time management, administrative, and problem-solving skills through customer-facing roles, demonstrating adaptability, attention to detail, and professionalism in high-pressure environments
- University of York AI Society member: Attended multidisciplinary talks and guest lectures on AI ethics, societal impact, and emerging trends