

Abdul Fofanah

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EDUCATION

University of York York, England · 09/24 - 06/28
BSc (Hons) Computer Science with Artificial Intelligence (with a year in industry)
Key Modules: Engineering 1 [Assessment 1: 79% · Assessment 2: TBD] · Human-Computer Interaction [73%] · Software 1 [71%] · Software 2 [61%]

Dagenham Park Church of England School London, England · 09/16 - 06/23
3 A-levels + EPQ | Grades: A in Economics, B in Mathematics, B in Computer Science + A in EPQ
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
- Software Engineering Concepts: Object-Oriented Programming, Data Structures & Algorithms, CI (GitHub Actions)
- Data & Processing: JSON and CSV data handling, data visualisation with pandas and matplotlib
- Tools & Technologies: Git, Visual Studio Code, Linux (Ubuntu), WSL

PROJECTS

Java Game Development Project - Software Engineering Project [Engineering 1 Module] 09/25 - Present
GitHub: [1] github.com/AbdulFofanah/Thadjam | Java · LibGDX · Object-Oriented Design · UML · GitHub Actions · CI/CD · Automated Testing

- Implemented core Java-based functionality using LibGDX, delivering an initial implementation against a product brief, and later extending and adapting an inherited codebase to fully implement the brief as a group, utilising GitHub for the workflow (brownfield development)
- Applied an object-oriented software architecture, using UML modelling (class, sequence, and component diagrams) to ensure modularity, maintainability, and clear traceability from requirements to implementation
- Configured and used GitHub Actions to support continuous integration, automating Gradle builds, test execution, Javadoc generation, and runnable JAR packaging on pushes and pull requests, improving build reliability

Market Data Pipeline 08/25
GitHub: github.com/AbdulFofanah/Market-Data-Pipeline | Python · Java · C++

- 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

WORK EXPERIENCE

(Certificates of completion available on LinkedIn)

Kainos - Work Experience Intern & Code Camp Participant 05/22 - 08/22
HTML · CSS · Static Web Pages

- Built static websites using HTML & CSS, focusing on layout design, media integration, and basic semantic structure
- Completed guided security labs using OWASP Juice Shop to explore common web vulnerabilities, including SQL injection and cross-site scripting (XSS)
- Explored introductory machine learning concepts, including neural networks and neuroevolution, to build a conceptual understanding of intelligent systems

Ezoic - Work Experience Intern 05/22 - 08/22
WordPress · CMS Management · HTML/CSS · Live Site Updates

- Built and published a WordPress website, customising layout and site structure using templates and plugins to improve usability and SEO
- Collaborated with Ezoic developers to improve site performance and accessibility, gaining practical experience in CMS-based site optimisation and content management
- Gained hands-on experience working on a live production website, applying digital publishing practices and resolving practical content and site issues

Cisco - Work Experience Intern 06/22
Proposal: [Health Toilet Project Proposal - Google Slides](#) | Google Slides · Technical Communication · Industry Pitching

- 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 2 bouts and demonstrating discipline, mental resilience, and an ability to perform under pressure (currently undefeated)
- Professional skills: Developed strong communication, time management, administrative, and problem-solving skills through customer-facing roles in hospitality, leisure, and sales, working effectively in fast-paced, high-pressure environments
- Charity: Modelled for the Astra Collective Society, raising money and awareness for breast cancer in support of the Pink Ribbon Foundation