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)
Completed Relevant Modules: Human-Computer Interaction [73%] · Software 1 [71%] · Software 2 [61%]
In Progress & Upcoming Relevant Modules: Engineering 1 [Assessment 1: 79% · Assessment 2: In Progress] · Systems & Devices 2 (OS, Security & Networking) [In Progress] · Intelligent Systems (Machine Learning) [Upcoming] · Data Science [Upcoming]

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, Web Security (OWASP Top 10), Data Structures & Algorithms, CI (GitHub Actions), Agile/Scrum
- Tools & Technologies: Git, GitHub, 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 · Agile/Scrum · 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)
- Designed object-oriented architecture using UML modelling to ensure modularity, maintainability, and requirements traceability
- 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)

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 human-centered technical solution to a panel of Cisco professionals in a Dragon's Den-style innovation challenge
- Researched and structured a technical proposal for an IoT health product, showcasing proficiency in identifying user requirements and presenting to industry stakeholders
- Gained exposure to Cisco's collaborative culture and agile ways of working, confirming my desire to return for a placement year

Kainos - Work Experience Intern & Code Camp Participant   05/22 - 08/22
HTML /CSS · Static Web Pages
- Developed a responsive web interface using HTML & CSS, focusing on semantic structure and layout design to ensure accessibility
- Adopted a security-first mindset by completing guided security labs using OWASP Juice Shop to explore the common web vulnerabilities in the OWASP Top 10, including SQL injection and cross-site scripting (XSS)
- Explored introductory machine learning concepts, specifically neural networks, 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 developers to optimise site performance, accessibility, and content workflows
- Applied digital publishing practices to maintain a live production website and resolve practical site issues

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