Ibrahim Ali

Full-Stack Developer
Manchester, UK
Phone: +447575535123

Email: ibbyali2@gmail.com
GitHub: https://github.com/ibby-ali2
LinkedIn: https://www.linkedin.com/in/ibby-ali/

Languages

- A English | Native
- ﺍ Arabic | Fluent
- Ä German | B2 – Learning

Practical Skills

CAD | Engineering Drawing | MATLAB | Mathcad |

Reservoir Sim Tools | PETREL | ECLIPSE |

Coding : Ruby, on-rails | JavaScript | HTML | CSS | SQL | PostgreSQL | Moustache.js | Figma | Git | Heroku | Python | Data Science |

Industry Skills

CAD & Engineering Tools: SolidWorks, Sheet Metal, 3D Printing, DFMA, GD&T, tolerance analysis, load testing

Tech & Systems: Microsoft 365 (incl. Dynamics), SAP, VR systems, ATEX-certified hardware

Software & Dev Collaboration: App prototyping, data systems, workflow automation

Project Management: Full lifecycle delivery, offshore documentation, tender process involvement, SAP

Field Ops & HSE: Rope access logistics, offshore safety strategy, DNV standards

Personal Profile

I'm a technically strong engineer turned full-stack developer, combining mechanical and analytical skills with a modern web stack. I've led development teams during app design sprints using Trello, Figma, and DB schema tools to ensure clarity, inclusivity, and progress. I'm seeking a software role that values clean code, team-driven problem-solving, and CPD.

Education

Full Stack Web Development – Le Wagon Full-time Bootcamp

700+ hours of hands-on coding in an immersive full-stack program.

Key Skills: Ruby on Rails, JavaScript (ES6), SQL, HTML, CSS, Git, GitHub, React, PostgreSQL, Figma, Rest APIs.

Projects:

- Airbnb: A replica of the main website, with card layouts, using CSS, bootstrap, simple_forms, html, and SQLite.
- Deliveroo: A replica of Deliveroo food delivery website and app, with a database of restaurants, following MVC, CRUD in ruby on rails.
- MedFly: Design through Figma and Full-stack mobile app for drone delivery of meds for geological or physically restrained patients

100 % Flashcards | 70 % Challenges | TBC   **Mar 2025 - Jun 2025**

MSc Subsurface Energy Engineering (Petroleum) – The University of Manchester

‘ *Determining Deliverabilities of Hydrogen Cushion Gas in North Sea Reservoirs*’

Merit | 67 %   **Sep 2023 - Jun 2024**

Beng (Honours) Mechanical Engineering – Robert Gordon University

‘ *Smart Material Integration in 3D printing of ROV Components* ‘

1st Class | AAAAABBBB   **Sep 2018 - May 2022**

Work Experience

Mechanical Design Engineer | Fluxia Ltd   **Jul 2024 - Apr 2025**

Sole Mechanical Engineer at an Industry 4.0 startup with global partners. Led end-to-end design of a Coordinate Measuring Machine (CMM) using SolidWorks, integrating mechanical, electrical, and software systems. Drove multiple R&D projects, attended expos, and handled CAD, sourcing, and design optimisation to 7 Sigma and DFMA standards.

Key Projects:

- **CMM Development (Fluxia Ltd)**: Designed and developed a complete CMM system for industrial automation; closely supported and strategized with the COO on product and operations planning.

Project Engineer | Bilfinger UK   **Sep 2022 - May 2023**

Joined the Repsol Sinopec engineering team, rotating across documentation, logistics, stores, and specialist functions for full project delivery. Supported FTSO rig pipework restoration. Gained BOSIET, HUET, and MIST certifications, contributing to safe and efficient offshore readiness.

Key Projects:

- **Offshore VR Training Proposal (Bilfinger UK)**: Pitched VR headset training to reduce costs and improve safety awareness—evaluated feasibility during a £20M contract renewal process.

Transferable Skills

Focused | Determined | Analytical | Team player | Consistent | Organised | Observant | Social | Adventurous | Confident | Technical | Adaptable | Independent | Problem solver | Self-motivated | Logical | Flexible |

Professional Registrations

Society of Petroleum Engineers (SPE)

IET and IMechE

The Geological Society of London

Certifications

BOSIET – Basic Offshore Safety Induction and Emergency Training

HUET – Helicopter Underwater Escape Training

MIST – Minimum Industry Safety Training

Black SkillsCard CSCS Managers – Construction Skills Certification Scheme

ATEX Awareness

Project Management

References

Available on Request

- **ATEX Tablet Integration (Bilfinger UK)**: Researched ATEX-certified tablets; collaborated with software developers to design a custom app, streamlining field data reporting.

Junior Project Engineer | Altrad Sparrows   May 2022 - Sep 2022

Worked offshore with Harbour Energy, managing project closeouts, report writing, and planning of DNV-compliant load tests for a 40m gangway bridge. Championed a new offshore HSE strategy by introducing body cameras to improve safety and accountability.

Key Projects:

- **Safety Innovation (Sparrows)**: Initiated offshore body cam usage to enhance incident reporting and accountability.

Technical Field Engineer | AY Digital   Oct 2018 - May 2022

Completed 1,800+ nationwide AV and security installations for clients like Samsung and Amazon, maintaining a 96% 5-star satisfaction rate. Generated £25k in peak month through self-managed operations. Reinvested in 3D printers, server racks, professional tools, and a fully equipped van to scale service delivery.

Key Projects:

- **Scalable Tech Ops (AY Digital)**: Independently built a tech installation business—invested £25k profit into drones, 3D printers, pro tools, web presence, and cloud platforms.

Additional CPD

Introduction to Data Science with Python – Robert Gordon University
SCQF Level 9, 15 Credits

Completed a 10-week online course covering the full data science lifecycle, including data cleaning, transformation, analysis, and visualization. Gained hands-on experience with Python libraries to process and analyse various data types, applying data science algorithms to datasets. The course also addressed professional, ethical, and legal considerations in data analysis, such as data bias and privacy concerns.

Key Takeaways:

- Explored real-world datasets, applied statistical methods, and worked with libraries like Pandas, NumPy, and Matplotlib

A | 73% On Coursework   **July 2022**

Hobbies & Interests

Outside of formal roles, I actively experiment with **emerging technologies**—from self-hosted Linux servers to 3D printing**,** Cricut-based design, and custom merchandise production (T-shirts, hoodies, mugs). I approach these with a professional mindset—treating each project as a hands-on lab for design, workflow optimisation, and technical growth.

I balance my technical pursuits with a strong focus on personal development—training consistently at the gym, playing 5-a-side football, and mountain biking nationally. I'm also engaged in **charity initiatives** supporting displaced communities worldwide. A member of **IMechE**, **SPE**, **IET**, and the **Geological Society of London**, I keep closely connected to scientific research, technology trends, and breakthrough innovations across disciplines. I thrive at the edge of invention—where design meets disruption.