Mohammed Bobboi

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EDUCATION

University of Sheffield — Sheffield, England
Bachelor of Science in Computer Science — *September 2022 – June 2025*
- Predicted to graduate with a First Class Degree
- Relevant Modules: Mathematical Foundations of Computer Science, Cybersecurity, Internet of Things, Machines and Artificial Intelligence, Devices and Networks, Software Testing, Algorithms and Data Structures
- Dissertation: Developing a tool for modelling probabilistic systems, including an interactive GUI for simulating system behaviour and implementing algorithms for minimized probabilistic systems using bisimulation techniques.
- Member of the University of Sheffield Computer Society and the University of Sheffield Investment Society

INTO Manchester — Manchester, England
NCUK International Foundation Year in Sciences and Engineering — *September 2021 – June 2022*
- Grades: Engineering Mathematics A*, English for Academic Purposes A*, Physics A, Further Mathematics A*

EXPERIENCE

180 Degrees Consulting — Sheffield, England
Head of IT — *October 2024 – Present*
- Engineered an AI-powered client outreach system using Python, a self-hosted Llama 3 (8B) model via Ollama, and the Mailgun API—resulting in a 500% increase in client reach this cycle.
- Led optimization of Monday.com workflows and automation to streamline project management; enhanced task tracking and collaboration across 9 departments, reducing time lost on manual updates by 50%.

Advanced Manufacturing Research Center (AMRC) — Sheffield, England
Software Developer Intern — *July 2024 – September 2024*
- Designed an asset management system using VMware, PostgreSQL, GitHub, RSpec, Slack, Haml, and Ruby on Rails, improving device tracking and reducing misplacements by 30%.
- Spearheaded requirements gathering with 4 stakeholders; translated 30+ user stories into technical specifications.

Twikker Fund, University of Sheffield Investment Society — Sheffield, England
Portfolio Analytics Analyst — *October 2023 – September 2024*
- Engineered Python automation scripts as part of a 5-person team that reduced financial data processing time by 80%; optimized parallel processing techniques that handled 15GB+ of daily financial data and decreased execution time from 5 minutes to 40 seconds.
- Delivered critical data engineering support for Europe's largest student-led fund (£200,000+); built interactive dashboards that visualized 20+ performance metrics and created a predictive algorithm that contributed to a 12.8% alpha generation over the benchmark index within a 12-month investment period.

Primal Aero — Abuja, Nigeria
Web Developer Intern — *June 2023 – September 2023*
- Developed a full-stack web application for a private jet chartering service; architected database schema handling 15+ monthly bookings using PostgreSQL and achieved 98% test coverage using RSpec.
- Led user acceptance testing for MaxAir's internal platform; identified and resolved 20+ critical bugs, reduced page load time by 35%, and increased user satisfaction scores from 6.2/10 to 8.7/10 over a 3-month testing period.

PROJECTS

Regent Court Locksmiths | *Android, Kotlin, Jetpack Compose, Room, Firebase, GitLab* — Sept 2024 – Dec 2024
- Built a property management app using MVVM architecture, processing 100+ test requests with 90% accuracy.
- Integrated Google Maps API for location services and leveraged Room Database for offline storage, enabling 100ms retrieval of 50+ property records.

TECHNICAL SKILLS & EXTRACURRICULARS

Languages: Java, Python, Kotlin, SQL (PostgreSQL, SQLite), JavaScript, HTML/CSS, Ruby
Frameworks: React, Node.js, Flask, JUnit, RSpec, Jetpack Compose, Haml, WordPress, MVVM Architecture
Developer Tools: Git, GitLab, Docker, VMware, VS Code, IntelliJ, Room Database, Firebase, Monday.com
Student Interviewer for the Times (2025)
Footballer for Sheaf House FC