Mohammed Bobboi

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EDUCATION

University of Sheffield — Sheffield, England
Bachelor of Science in Computer Science — *September 2022 – June 2025*
- Second Class Upper Degree.
- Relevant Modules: Java Programming, Data Driven Computing, Internet of Things, Machine Learning and AI, Devices and Networks, Human-Computer Interaction, Software Testing, Algorithms, Systems Design & Security.

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
Technology Director — *October 2024 – June 2025*
- Led development of a full-stack client outreach platform, independently building the Python FastAPI backend and integrating third-party APIs to identify potential clients, resulting in a 5x increase in client reach.
- Established a CI/CD pipeline using GitHub to automate deployment of the React frontend to Vercel and the Python backend to Render, ensuring continuous updates and stability for 8+ active users.
- Directed all IT strategy, including cybersecurity implementation, Google Workspace administration, and Monday.com workflow automation across 9 departments.

Advanced Manufacturing Research Center (AMRC) — Sheffield, England
Software Development Intern — *July 2024 – September 2024*
- Built and deployed a full-stack asset management system using Ruby on Rails, following the MVC architecture, with a PostgreSQL relational database and Haml-based templating, ensuring data integrity for 100% of assets.
- Replaced spreadsheets with an authenticated, role-based system, cutting record entry from ~60 seconds to 10 seconds and weekly consolidation from ~120 to 10 minutes; all creates/updates/deletes logged for audit.
- Led stakeholder engagement, conducting 4+ discovery sessions, translating 30+ user stories into agile deliverables.

Twikker Fund, University of Sheffield Investment Society — Sheffield, England
Portfolio Analytics Analyst — *October 2023 – September 2024*
- Provided critical data and IT support across 4+ investment teams, ensuring efficient operations for Europe's largest student-led investment fund managing over £200,000 in real assets.
- Built a live dashboard to visualize 20+ portfolio metrics by integrating Hargreaves Lansdown data via a C# client API, providing the real-time insights that supported the team in achieving a 12.8% annual profit.

PROJECTS

University Dissertation (Distinction) | *Python, pytest, Streamlit, NumPy, SciPy, Graphviz* Sept 2024 – Jun 2025
- Built a Python-based application with a Streamlit GUI for modeling and simulating probabilistic transition systems, enabling custom model input, Graphviz visualizations, and side-by-side behavioural distance comparisons.
- Integrated linear programming (via SciPy) to compute bisimulation distances using Wasserstein lifting.
- Designed a comprehensive test automation framework with pytest and pytest-cov, authoring both unit and integration tests to achieve over 90% code coverage, ensuring algorithmic correctness and UI stability.

Football Match Predictor | *Python, scikit-learn, Jupyter notebook, pandas Github* — July 2025
- Developed an end-to-end machine learning pipeline to predict English Premier League match outcomes, processing historical match data to train and evaluate a predictive model.
- Implemented a Random Forest Classifier using Scikit-learn to classify match results, training the model on engineered features to predict whether a team would win.
- Engineered features using rolling averages of team performance statistics (e.g., goals, shots), improving the model's prediction precision from 47% to 67.5%.

TECHNICAL SKILLS & EXTRACURRICULARS

Languages: Java, Python, Kotlin, JavaScript, HTML/CSS, Ruby, C#, C++.
Frameworks: React, Node.js, Flask, JUnit, RSpec, Jetpack Compose, Haml, WordPress, MVVM Architecture.
Data: PostgreSQL, SQLite, Git, Github NumPy, pandas, SciPy, Streamlit, Graphviz, Firebase, DatoCMS