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<https://abdulbasiit.tech> | <https://github.com/newToCodng> | <https://linkedin.com/in/abdulbasiit>

Aspiring Software Engineer passionate about solving real world problems through software engineering, embedded systems, and cloud technologies. Hands-on experience in full-stack development, IoT data processing, and data-anomaly detection. Built a full-stack glucose monitoring system that improved test coverage by 40%.

Education

UNIVERSITY OF PORTSMOUTH

BS Computer Science

Expected 2026

- Relevant Coursework: Internetworking, Operating Systems, IT Security, Data Structures

Technical Skills

- Programming: Java, Python, Dart, Flutter, FastAPI, SQL.
- Cloud & DevOps: Git, Docker(Basic), CI/CD (GitHub Actions, Cloud Fundamentals (Azure))
- ML & Data Processing: Numpy, Scipy, Matplotlib, Pandas
- Soft Skills: Team Collaboration, Technical Documentation, Problem Solving

Technical Projects

NOTES APP – A SIMPLE FILE-BASED NOTE-TAKING APPLICATION

Feb 2025

Tech Stack: Java, File I/O, Input Validation, OOP

- Designed a Java CLI notes manager using OOP principles.
- Implementing delimiter escaping, enhancing data integrity and eliminating parsing errors.
- Implemented file handling to store notes in a text file
- Achieved 100% valid note entries via input validation
- Enforced 100% unique note titles through duplicate checks and case-insensitive validation
- Introduced user-friendly error handling with clear feedback messages
- GitHub: <https://github.com/newToCodng/Notes>

GLUCOSE MONITORING SENSOR SIMULATOR.

Jan 2025

Tech Stack: Flutter, Dart, FastAPI, Python

- Developed an IoT-driven glucose monitoring system for real-time data processing.
- Designed a FastAPI backend to handle 100+ concurrent database transactions.
- Integrated SQL database for efficient data storage and retrieval.
- Used automated testing to validate data processing and ensure system reliability.
- **GitHub:** <https://github.com/newToCodng/SensorSim>

ANOMALY DETECTION IN SENSOR DATA

Feb 2025

Tech Stack: Python, NumPy, Pandas, Matplotlib, SciPy

- Developed a sensor anomaly detection system to simulate and detect irregular sensor readings using ML techniques.
- Implemented Z-score to detect anomalies and identify sensor failures in simulated time-series data.
- Visualisation of data with Matplotlib, highlighting real-time sensor readings and anomalies.
- Future Work: Exploring ML-based anomaly detection (Isolation/LSTM) for improved accuracy.
- GitHub: <https://github.com/newToCodng/AnomalyDetector>

Professional Experience

UNIVERSITY OF PORTSMOUTH - Student Ambassador

Sep 2024 -Present

- Engaged with 50+ prospective students and parents, providing insights into the Computer Science program and university life.

- Collaborated with other student ambassadors to create a welcoming and informative environment during open days.
- Assisted course leaders in delivering lectures and presentations on core modules, helping prospective students understand the curriculum.

Certifications & Training

- Microsoft Azure Fundamentals (in progress- Udemy) Expected April 2024
- Microsoft Azure Entra ID (in progress- Udemy) Expected April 2024

OTHER EXPERIENCE

UNIVERSITY OF PORTSMOUTH – HouseKeeping Assistant May 2024 - September2024

- Worked in a fast-paced environment, while working in teams, to deliver high quality service to guests.