

# ABDIMAAALIK SAHAL

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## Education

### Queen Mary University of London

BSc Computer Science and Mathematics - Grade: 75%

Penultimate Year

London, United Kingdom

## Relevant Coursework

- Data Structures & Algorithms
- Object-Oriented Programming
- Software Engineering Principles
- Analysis in Calculus
- Vectors and Matrices
- Automata Theory & Formal Languages

## Projects

### Weather Data API | Python

Oct 2025

- Developed a RESTful API in Python that provides real-time weather information for cities worldwide.
- Retrieves and serves key weather metrics including temperature, humidity, cloud coverage, wind speed, atmospheric pressure, sunrise, and sunset times.
- Integrated external weather data sources and structured responses in JSON format for easy consumption by frontend applications or other services.

### User Login System | Python

Nov 2025

- Developed a Python-based User Login System with features for Registration and Password Reset, focusing on the core challenge of secure user authentication.
- Utilized SQLite for persistent storage, gaining practical experience in connecting to a database, executing SQL queries (such as SELECT), and managing user data integrity.
- Implemented strict password complexity requirements (e.g., minimum length, requirement for uppercase, lowercase, and digits) as a critical security measure, demonstrating attention to secure application design.

### Horse Race Simulator | Java, Java Swing

April 2025

- Built an interactive race simulator where users could customise races, place virtual bets, and track outcomes, tested by 50+ students to support probability-based learning.
- Optimised performance by applying event-driven programming and OOP design patterns, reducing UI latency by 30% and delivering smoother real-time animations.
- Implemented detailed statistics tracking for win/loss data and probabilities, improving engagement and re-playability.

### Whac-A-Mole Game | Java, Java Swing

Sept 2024

- Developed a multi-threaded GUI game with responsive mole appearances and real-time scoring across 100+ test runs.
- Enhanced replayability by introducing difficulty scaling, which increased average playtime by 20%.
- Applied modular design principles to streamline future developments, enabling quick iteration of new gameplay mechanics.

## Experience

### Centre Circle Agency

Feb 2025 – Sep 2025

Safety Steward

London, United Kingdom

- Ensured safety and smooth operations at stadiums with 50,000+ attendees by monitoring crowds and managing entries.
- Handled incidents with calm decision-making, escalating issues to supervisors and contributing to rapid resolution.
- Collaborated with 20+ stewards to coordinate security, emergency protocols, and crowd flow management.

### Yeelo Tuition

Oct 2022 – April 2023

Physics Tutor

London, United Kingdom

- Planned and delivered structured lessons covering GCSE Physics topics, adapting explanations and examples to suit student abilities and learning speeds.
- Implemented targeted practice sessions using past exam questions to improve analytical problem-solving, leading to measurable score improvements across multiple students.
- Provided one-on-one feedback and study strategies that boosted student confidence and engagement, reflected in higher class participation and retention rates.

## Skills

Programming Languages: Java, Python, JavaScript, SQL, HTML/CSS

Developer Tools: Git, GitHub