

Eshan Sharif

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Education

The University of Warwick, *Sept 2023-July 2026*
, BSC Computer science, First-year student

A levels, Ashmole Academy: A*A*A in Mathematics, Biology and Chemistry, *Sept 2015-Aug 2022*

GCSE'S, Ashmole Academy: 11 GCSE'S including 9 in Further Mathematics and Mathematics, *Sept 2015-Aug 2020*

Achievements: Gold UKMT Maths challenge | Top 5 in cohort for Biology Olympiad and Chemistry Olympiad | Bronze Duke of Edinburgh
Courses: Harvard CS50 Python Course | Udemy course for Algorithms and data structures | CodeAcademy Python course

Experience

Wagamama , Front of house team member | Waiter *sept 2022 - sept 2023*

- Adaptability: Worked efficiently in a **fast-paced and dynamic environment**, adjusting to evolving customer needs and restaurant procedures.
- Communication Skills: **Collaborated effectively** within a team to guarantee efficient service and customer satisfaction.
- Time Management: Managed multiple tables, prioritized tasks, and maintained a **streamlined workflow during high-volume shifts**.
- Multitasking: **Handled various responsibilities** at once, such as taking orders, serving food, clearing tables, and processing payments.

Rose Tree GP Surgery, Shadowing doctors and IT staff | Work experience *July 2021 - Sept 2021*

- Administrative Skills: Managed scheduling, patient records, and various administrative duties, honing organizational and **time management** competencies.
- Computer and IT Skills: Gained insights into electronic health records (**EHR**) **systems** during a shadowing experience with IT specialists. Familiarized with **EMIS** software and acquired a deep understanding of the **AI-driven Praxis EMR software**, which enhances patient diagnosis through pattern recognition.

Nightingale UPS installation, Shadowing electrical engineer | work experience *May 2020 - July 2020*

- Attention to Detail: Demonstrated precision and thoroughness in adhering to installation guidelines, ensuring UPS system reliability.
- Electrical Wiring and Safety: Proficient in managing **electrical systems**, emphasizing wiring, connections, and stringent safety protocols, especially in critical healthcare contexts.
- Logic Gates Knowledge: Comprehensive understanding of **logic gates** in UPS batteries, recognizing their role in transitioning between utility and battery power based on **key input signals**.

Klasp charity shop, sales | Volunteer *Aug 2019 - Feb 2020*

- Sales Skills: Assisted the charity in **increasing its sales by 22%** through virtual merchandise and **social media marketing(SMM)**. Utilized platforms like TikTok and Instagram to enhance online presence and motivate supporters.
- Cash Handling: Gained hands-on experience with cash management by working on the tills, processing transactions, and ensuring accurate financial records.

Skills

Programming Python, C, Java, HTML, CSS, Scripting (Bash), LaTeX, Learning Haskell
Platforms Linux, Git, Windows, MacOS
Developer tools Visual studio code, IntelliJ, Atom , Kwrite , GitHub , MySQL

Projects

Java Robot Maze, using Java *Sept 2023 - Dec 2023*

Coursework project

- Developed an **autonomous Java-based robot for efficient maze navigation** and target location using advanced pathfinding algorithms.
- Enhanced the robot's learning algorithms for **iterative performance improvement** in complex maze structures.
- Utilized **Java's object-oriented design** for a modular navigation system, enabling scalability and easy maintenance.
- Employed Java Collections for data management and **optimized A* algorithm heuristics** for effective route determination.
- Streamlined Java code to boost computational efficiency, reducing the algorithm's time complexity for high-stakes navigation tasks.
- Enhanced the efficiency of the robot's pathfinding logic by refining Java's native **data structures** for faster access and updates.

Robot arm, using C *Nov 2023 - Jan 2024*

Hardware project

- Developed software to programmatically **control a robot arm for solving the "Tower of Hanoi" puzzle** as the project's objective.
- Took initiative in a sophisticated robotics project focusing on autonomous problem-solving and precise motion control.
- **Programmed five Dynamixel AX-12a stepper motors** for intricate arm movement and manipulation **using C**.
- Implemented UART0 protocol for reliable serial communication between the software and the stepper motors.
- Utilized the **libdynamixel library** for efficient motor control, facilitating **daisy-chaining of the motors** for streamlined connectivity.
- Designed a system to lock motors post-initial movement, ensuring controlled motion only through programmed commands.
- Achieved **seamless hardware-software integration**, demonstrating advanced **capabilities in C programming and robotics** engineering.
- Applied innovative coding solutions to **overcome challenges in robotic control** and autonomous systems development.