

# EMARD MOGHISI

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## Education

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- **University of Manchester** Sep 2024 – Jun 2027  
Bachelor of Science in Computer Science  
*1st Year — Netcraft Prize Winner; ranked 4th out of 200+ in cohort*
- **Loughborough Grammar School** Sep 2016 – Jun 2023  
A Levels: **A\*A\*A\*A\*** in Maths, Further Maths, Chemistry, Biology  
GCSE: 9,9,9,9,9,9,9,8,8 in Maths, Biology, Chemistry, Physics, History,  
Computer Science, French, English Language, English Literature

## Experience

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- **Marandy Ltd** Jun 2023 – Sep 2024  
Software Engineer (Volunteer) Loughborough
  - Built and deployed a **taxi-booking platform** with **100+ monthly active users**, enabling customers to book rides, track drivers, and communicate with operators in real time via WebSockets.
  - Implemented secure authentication and role-based access control using JWTs and refresh tokens; integrated payments (credit card, cash, invoices) with automated receipt generation.
  - Integrated a carbon footprint tracker, pulling data from the VES API to estimate per-trip CO<sub>2</sub> emissions and visualise historical user impact enabling users and businesses to be aware of their environmental impact.
  - Containerised the application with Docker, cutting deployment time from hours to minutes and simplifying server maintenance.
  - Developed a **product marketplace web application** for Marandy to showcase services and products online, including an admin dashboard for content management, and order handling.

## Projects

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- **Forum Team Project — React, Typescript, Express** Mar 2025
  - Led a 5-person team to design and build a university-specific forum webapp for student collaboration.
  - Defined and documented REST API specifications with Postman to streamline frontend-backend integration and reduce merge conflicts.
  - Implemented secure authentication and refresh token handling; built a real-time chat module with Socket.IO.
  - Organised and ran weekly tutorials and help sessions to mentor teammates, resolve blockers, and improve productivity.
- **Task Scheduler — React, Golang** Nov 2023
  - Built a task scheduling tool for managing deadlines and reminders intended for businesses.
  - Implemented a background Cron job to automatically send SMS and email notifications for upcoming tasks.

## Technical Skills

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- **Languages:** Python, JavaScript/TypeScript, Golang, Java, SQL
- **Frameworks/Libraries:** React, Express, TailwindCSS, Echo, Spring Boot
- **Developer Tools:** Git, Docker, Linux, SSH, VSCode, Neovim