

EMARD MOGHISI

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Education

- **University of Manchester** Sep 2024 – Expected 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

- **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 without needing to call.
 - Utilised Websockets to allow for manual acceptance or rejection of jobs to make the webapp accessible for small companies who cannot take many bookings.
 - 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 CO₂ 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** using React and Spring Boot to showcase services and products online, including an admin dashboard for content management, and order handling to try and help boost sales.

Projects

- **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.

Awards

- **Netcraft Prize** for academic excellence (£250) July 2025
- Student Hack Manchester - **Google Algorithm Challenge winner** April 2025

Technical Skills

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