

DHRISHAJ GARG

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Education

The University of Manchester

September 2021 – July 2025

BSc (Hons) Computer Science with Industrial Experience

Manchester, United Kingdom

- On track to graduate with First Class Honours (1:1).
- Relevant modules: Database Systems, Advanced Distributed Systems, Internet of Things, Computer Vision, Graphics and Virtual Environments, Software Engineering, Algorithms and Data Structures, UX.

Experience

Cantarus (cantarus.com)

July 2023 – Present

Developer - Products

Manchester, United Kingdom

- Maintained and developed - as a member of the Products Team - the company product *MemConnect*, which is a collection of micro-services used together to develop android and iOS apps for membership organisations.
- Implemented new features, enhanced existing features and fixed bugs introduced in development cycles of each agile sprint.
 - * Built 2 apps from the ground up, by initialising repositories and setting apps up on the MemConnect cloud.
 - * Applied themes and styling to apps and custom components.
 - * Developed and maintained key packages, such as MemConnect-Jobs, encouraging 4 old clients to upgrade apps.
 - * Created custom components used across 11 MemConnect applications.
 - * Optimised and improved existing MemConnect features for enhanced user experience.
- Programmed in **React Native** (in **TypeScript**) to build the front end. Managed back-end connectors using **C# .NET**. Containerised and ran connectors locally using **Docker** during development. Mapped back-end data to the front-end using **GraphQL**.
- Reported and fixed any bugs encountered during the testing cycle, averaging to 7 - 10 bugs per cycle.

Smartech Global Solutions Ltd.

July 2022 – August 2022

Software Intern

Mumbai, India

- Designed wire-frames for Enterprise Resource Planning software, and mobile and web applications.
- Evaluated available APIs and created reports to compare APIs depending on efficiency, cost, and usability.

Projects

Edge Resources Exploitation in the IoV | *Veins, INET, OMNeT++, Python*

September 2024 - Present

- Developing a **fog-based**, multi-intersection coordination algorithm to prioritise emergency vehicles by dynamically controlling traffic lights through V2I communication, enabling adaptive green-wave traffic flow and reducing emergency response times.

Tails of Time | *Bing Search API, Streamlit, OpenAI Swarm, Python*

November 2024

- Visualised the evolution journey of up to 5 evolutionary stages for a user-inputted animal using an interactive timeline, map visualisation, mood indicators, and a summary generated by web scraping and GPT generation.
- Leveraged OpenAI swarm and **Prompt Engineering** for data retrieval, with a chat box functionality to ask more questions to the evolutionary stage of the animal.

Stendhal | *Java, JUnit Testing, Jenkins*

September 2022 – January 2023

- Applied industry standard tools for version management, issue tracking, automated build, unit testing, code quality management, code review and continuous integration using test-first development.

Patch - Pet Matchmaking Website | *HTML, PHP, JavaScript, MySQL*

January 2022 – April 2022

- Coordinated a team of 7 people to build a website that aimed at finding friends for a user's pets.
- Developed skills such as web development using PHP and HTML, database management using MySQL, effective use of Git, time management and effective communication using Trello Boards.

Leadership / Extracurricular

Treasurer | *University of Manchester Tango Society*

July 2024 – Present

- Managing budgets of around 500 pounds for a society that is free for the wider Tango community in Manchester.
- Teaching Tango at weekly sessions and helping organising socials to foster a sense of community.

Logistics Team Lead | *GreatUniHack 2023 (great-uni-hack-2023.devpost.com)*

June 2023 – October 2023

- Budgeted and managed the logistics of a 19,000 pound 2-day event for around 200 participants.

Peer Assisted Study Sessions (PASS) Leader | *Department of Computer Science*

September 2022 – June 2023

- Guided 14 first-year students through university life. Facilitated peer-supported learning and was a point of contact for students for university resources.

Events Officer | *UniCS - University of Manchester Computer Science Society (unicsmcr.com)*

June 2022 – May 2023

- Collaborated with 7 different departments of UniCS to keep the society running smoothly, organising social events and weekly workshops for students at the University of Manchester. Managed a team of 10 members.