

# Mihail-Emanuel Ghinea

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## WORK EXPERIENCE

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### THG

*Software Engineer II*

Apr 2024 – PRESENT

*Software Engineer I*

Apr 2023 – Apr 2024

*Graduate Software Engineer*

Aug 2021 – Apr 2023

- Maintaining and developing an internal platform that manages brand-influencer relationships, including payments, purchase tracking, and social media activity for brands like MyProtein, LookFantastic, and Coggles
- Driving frontend development in **React/Typescript**, unit testing in **Jest**, end-to-end testing in **TestCafe** (and the migration to **Playwright**) and mutation testing in **StrykerJS**
- Leading the development of new features, championing clean-code principles and ideal testing practices
- Handling sprint ceremonies for the team and working to improve velocity and minimize distractions
- Overseeing **UI/UX** accessibility improvements in the application and promoting an accessibility-first approach to development as the Named Accessibility Champion (NAC) for my team

### Siemens Energy

Sep 2019 – Aug 2020

*Mindsphere/Digital Intelligence Intern*

- Simplified the reporting of high level KPIs with a **React/Typescript** dashboard, reducing the latency of queries from over a minute to under a second
- Designed and developed infrastructure and pipelines for Gas Engine data to sanitise and normalise it
- Informed business decisions with data visualisations in **Tableau**

### University of Manchester

Jun – Aug 2019

*Vacation Project Assistant*

- Founding member of the Manchester University student software company (Imago)
- Developed a drag-and-drop mini-game for the Manchester Museum in **React/Typescript**
- Worked on a multi-platform app (**Dart**, **Flutter**, **Firebase**) that simplifies organising amateur boat races

### NetRom

Jun – Aug 2018

*Software Engineering Intern*

- Improved performance on a data aggregation tool written in **C#/ASP.NET** and **SQL**
- Modernised an old website, replacing it with a single page application in **Angular (Typescript)**

### NetRom

Aug – Sep 2017

*Software Engineering Intern*

- Built a web app for managing employee benefits with **C#/ASP.NET**, **MySQL**, **HTML/JavaScript/CSS**

## EDUCATION

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### The University of Manchester

Sep 2017 – Jun 2021

*BSc(Hons) Computer Science with Industrial Experience - First Class Honours*

- Courses: Java OOP, Maths, Algorithms & Imperative Programming (**C**), Software Engineering (**Java**), Distributed Systems (**Python**), Machine Learning (**Matlab**), Symbolic AI (**Prolog**), NLP, Databases (**SQL**)
- Final Year Project, A Platform for Data Services: An exploration of data markets and various technologies for efficient data handling and brokering the relationship between data consumers and data sellers
- Software Engineering 1: Collaborated to develop new features for an open-source Java project (Stendhal)
- Software Engineering 2: App for event scheduling in **Java/Spring Boot** using **Test-Driven Development**
- First Year Project: App to ease the use of washing machines in halls with **Django (Python)** and **MySQL**
- PASS (Peer Assisted Study Sessions) and PASS2 Leader: organised weekly meetings as part of the scheme to provide support to first and second-year students

## PROJECTS

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### Scientific and Technical committee member - agm-contest.com

Sep 2019 – PRESENT

- Organising the AGM international programming contest for high school students
- Maintaining a dockerised domjudge (an automated system for programming contests) on Digital Ocean
- Formulating statements, writing the source code and tests for contest problems