Mihail-Emanuel Ghinea

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Work Experience

Graduate Software Engineer at The Hut Group, Manchester — Aug 2021 - PRESENT
- Maintaining and developing an internal platform for managing the relationship between social media influencers and internal/external brands
- Frontend development in **React/Typescript**
- Named Accessibility Champion (NAC) for my team (UI/UX accessibility)

Mindsphere/Digital Intelligence Intern at Siemens Energy, Lincoln — Sep 2019 - Aug 2020
- Simplified the reporting of high level KPIs with a **React**/**Typescript** dashboard
- Designed and developed infrastructure and pipelines for Gas Engine data
- Helped inform business decisions with data visualisations in **Tableau**

Vacation Project Assistant at University of Manchester — Jun - Aug 2019
- Founding member of the Manchester University student software company
- Developed a drag-and-drop mini-game for the Manchester Museum in **React**/**Typescript**
- Worked on a multi-platform app (**Dart**, **Flutter**, **Firebase**) which simplifies organising amateur boat races

Software Engineering Intern at NetRom, Craiova (Romania) — Jun - Aug 2018
- Worked on two administrative web apps: a scheduling tool and a data aggregation tool
- Debugged and improved on a large codebase (**ASP.NET**, **C#**, **SQL**)
- Modernised an old website, replacing it with a single page application in **Angular** (**Typescript**)

Software Engineering Intern at NetRom, Craiova (Romania) — Aug - Sep 2017
- Built a web app for managing employee benefits
- Utilised **ASP.NET**, **MySQL**, Razor Files (**HTML** with injected **C#**), **JavaScript** and **CSS**

Education

University of Manchester, Manchester, UK — Sep 2017 - Jun 2021
BSc (Hons) in Computer Science - 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: Web 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 & Extracurricular Activities

Scientific and Technical committee member - agm-contest.com — Sep 2019 - PRESENT
- Part of the organisation of 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

IARPA Mercury Challenge - iarpa.gov/challenges/mercury.html — Sep 2018 - Jan 2019
- Competed to forecast catastrophic events and provide early warning capabilities
- Made extensive use of **Python** data manipulation libraries (Tensorflow, Pyplot, Pandas and Numpy)
- Placed 9th during the 1st phase and Disease Top Place overall

Hackathons
- Won the **Programming Challenge** at Facebook Hack-a-Project in 2019
- Won **Best Software Hack** at ManMetHacks in 2019
- Won **Bot Programming Challenge** at GreatUniHack in 2018
- Won **Best Student Hack** at HackLeeds in 2018