

Harry Michael-Iacovou

Greater London

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PROFILE

Final-year Computer Science student (Lancaster University, First Class expected) with a strong academic foundation and proven ability to learn quickly and apply knowledge effectively. Experienced in React, Java, C#, SQL & more, with a demonstrated ability to deliver high-quality results in academic projects. Successfully contributed to a large-scale project for a multinational client at Aethersys, showcasing strong teamwork and technical skills. Eager to transition my skills and passion for learning to a professional career, seeking a graduate software development role in London where I can contribute to innovative solutions and continue to grow as a developer.

EDUCATION

Lancaster University - BSc (Hons) Computer Science

2021 - 2024

Part I: 1:1, Part II: Currently 1:1

Now in the third and final year of a three-year Computer Science course. Additionally, took a Part I minor in Accounting & Finance. I am currently on track for a first.

My dissertation was on 'Network Traffic Classification using Machine Learning' where I conducted research on AI and machine learning, and training models using Sci-kit learn and TensorFlow, including a custom multi-layer perceptron model, in order to create models with advantages compared to traditional classification methods. A model like this can be used on Software Defined Networks to provide better Quality of Service and disrupt attacks. I have found learning about artificial intelligence extremely interesting and would love to look more into this field. (Not yet graded)

Some notable projects that I enjoyed working on include:

- SCC.211 Operating Systems (A+): A program in C to read and interpret data from a raw FAT16 image, including displaying internal folders, and reading files with a custom file-handler that assigns descriptors to the files in the image (Received an A+ grade). Additionally, a program in Java using concurrency to add and remove items atomically, which is very useful for server applications.
- SCC.210 Group Project (A+, A, A): A group project in Java to create a Pixel-Based Graphics Editor, using key programming principles such as extensibility to make a highly functional and robust program. I was designated as the 'owner of code' (team leader), guiding the team in utilising the Git version control system with a topic-branch Git workflow and helped the team to use the Maven build tool to produce a useful product with features such as multiple layers and voice narration for accessibility.
- SCC.365 Advanced Networking (A+): Programming with Ryu in Python to create a controller that turns a standard 'dumb' network switch into a fully fledged router, forwarding packets, handling errors, and implementing a firewall to block unwanted traffic. This project was challenging but extremely interesting.
- SCC.361 Artificial Intelligence (A, A): Creating a Machine Learning model using K-Nearest Neighbour, with Euclidean and Cosine distances to classify handwritten letters from a dataset of 26,000 images. Another project in this module was a model to find the shortest path between two points in a 2D space, avoiding obstacles.

Langley Park School for Boys - A-Levels

2019 - 2021

Computer Science - Grade A, Media Studies - Grade B, Politics - Grade C

WORK EXPERIENCE

Temporary C#/React Developer | Aethersys Ltd. (London)

Jul 2023 to Sep 2023

Gaining valuable knowledge creating real-world networked financial software (for employee management, payroll, finances, subsidiary management) for a multinational client in React, HTML, TypeScript as well as a C# and Microsoft SQL Server backend.

- Scrum project management.
- Version control in a business (Git topic-branch workflow).
- C#, ASP.NET Core, Microsoft SQL Server, React, TypeScript, Tailwind CSS programming.
- Testing and debugging.
- Making server software thread-safe with concurrency.
- Increasing usability on front-end website, making affordances clearer using HCI knowledge.
- Communicating with team to form best solutions for problems presented by client.
- Using a mediator design pattern in large-scale projects.
- Using API calls to get and process data.
- Database management, including successfully migrating multiple database tables to ensure data loss does not occur.
- Improved staff work monitoring and analysis - I was assigned an analytical project to produce useful tables using information from the Git and the Azure DevOps APIs about staff contributions to the project, for managers to evaluate staff performance.

Undergraduate Teaching Assistant | Lancaster University

Oct 2022 to Jul 2023

- Offered this role due to being in the top 5% of returning year 2 students. Offered the role again in 2023 to continue supporting students. **& Oct 2023 to Jul 2024**
- Provide help and support to first and second during workshop sessions.
- Gave support in multiple classes of over 30 students each in 'Fundamentals of Computer Science', 'Software Development' and 'Operating Systems' modules.
- Communicated with students to help them understand how to resolve certain problems in their code.
- Helped students understand good programming principles and practices and ensure that their code reflects these. I believe that getting these good practices into your work now will help to naturally do this in the future when it becomes crucial, especially in larger projects.

IT Operations Assistant | Information Systems Services at Lancaster University

Apr 2022 to Jul 2022

This team operates the IT infrastructure of the University

- Check for, troubleshoot report issues in lecture theatres and teaching spaces
- Restock printers with paper and ink
- Troubleshoot and update product firmware in the workshop
- Conduct research into new applications that the university are looking to purchase
- Reported many faults during the temporary role, ensuring interruptions to teaching are limited

Freelance IT & Bookkeeping Work | Kuki Hair (Family Business)

Jan 2018 to Jan 2021

A popular five-star hair salon and family business in Peckham, London.

- Collect bank statements, invoices and receipts for tax
- Help with logging employee commissions, to ensure employees are paid the correct amount
- Implement and manage Point-of-Sale system
- General IT and Point-of-Sale system advice and support
- Helping to organise and execute digital marketing campaigns

Led the salon's migration from paper-based records to a centralised digital point-of-sale system. The salon now supports online bookings, online payments and digital marketing campaigns.

ADDITIONAL INFORMATION

Training

- Digital Skills Certificate from Lancaster University [2022]
- Completed Teaching Assistant Training Programme from Lancaster University [2022]

Languages

- English (Native Speaker)
- Greek (Beginner)

Technical skills

Working in a team

- Scrum workflow (proficient)
- Version Control (proficient)
 - GitHub
 - GitLab
 - Azure DevOps
- Group work (proficient)
- Leading a team (proficient)

Programming languages

- C (proficient)
- Java (expert)
- C# (proficient)
- Python (expert)
- Linux bash (expert)
- Visual Basic (expert)
- MATLAB (proficient)

Web Development

- React (proficient)
- JavaScript (proficient)
- TypeScript (proficient)
- Node.js (proficient)
- PNPM (proficient)

- HTML (expert)
- CSS (proficient)
- Tailwind (proficient)

Internet

- ASP.NET Core (novice)
- REST APIs (proficient using GET in C# and Postman)

Programming principles

- Object-oriented programming (expert)
- Design patterns (proficient)
- Distributed systems (proficient)
- Concurrent programming (proficient)

Databases

- Microsoft SQL Server (proficient)
- SSMS (proficient)
- SQLite (expert)
- PostgreSQL (novice)
- Google Cloud BigQuery (proficient)

Miscellaneous

- Microsoft Office Suite (expert)