

JERRY ARTHUR

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Summary

I am currently a student studying software engineering at Manchester Metropolitan University that's currently enrolled on a placement year at Ovarro. I specialize in problem-solving and adapting to new technologies quickly. I have experience in a variety of programming languages, including Java, C, C# and JavaScript, and I am proficient in developing solutions for critical infrastructure projects, including remote monitoring and control systems.

Projects

Full Stack Social Media Application (JavaScript)

- **Project:** Social Media Application
- **Video Walkthrough** – [SocialMediaWalkthrough](#)
- **GitHub Front End** – [FrontEnd](#) **GitHub Back End** - [BackEnd](#)
- **About the Project:** I developed a social media platform for university students using JavaScript, Node.js, and SQLite. Integrated front-end features with Vue and Bootstrap and implemented RESTful APIs for data interaction. Focused on authentication and data management through access tokens and microservices architecture.

Key tool/frameworks used: Nodejs, Express, Joi, SQLite, VUE, Bootstrap, Access tokens, RESTful API, Fetch, Microservice Architecture, MVC DP

Key accomplishments: Use of Restful APIs to communicate between front end and back end. Creation of a User interface with the help of the Bootstrap style framework. Interacting with a database. Using the MVC Structure Pattern to make it more scalable and maintainable. Handling authentication and authentication using access tokens. Debugging.

Hackathon (Java)

- **Project:** App tailored for students
- **LinkedIn:** [TheGroup](#)
- **Prototype pictures:** [ConnectToDataBase](#) - [DataBaseTables](#)
- **About the Project:** I built a student-focused app prototype allowing users to find store prices and local jobs. Developed backend using Java and SQLite, managing data through JDBC queries and ensuring efficient team collaboration.

Key tools/frameworks used: JDBC, Java, SQLite, GitHub

Key accomplishments: Working and communicating efficiently within a team to create a project. Understanding different personalities and strengths of the people within the group. Use of **GitHub**. Communicating with a database using JDBC.

Languages: Python, C++, C#, C, Java, Kotlin, SQL, TypeScript and Swift.

Education

BSc Software Engineering: Second Year

Manchester Metropolitan University

2022 to Present

Manchester

Modules

Advanced Programming – Final Grade: 2:1

- In this module I increased my understanding of programming in the Java language and most importantly learning about Object-Oriented Programming and the key concepts which are **Polymorphism**, **Encapsulation**, **Inheritance** and **Abstraction**.

Full-Stack Web Development – Final Grade: 1

- In this module, I developed a full-stack social media application called Chirrup. The platform allows users to create accounts, log in, share posts, and interact with others' content. This was a significant project for me, as it was my first time building an application of this scale. Initially, I had doubts and a hesitant mindset.

However, by overcoming various challenges and learning new skills along the way, I successfully completed the project and received a high mark, boosting my confidence as a programmer.

Software Development Processes – Final Grade: 2:1

- In this module, I gained an understanding of the full project lifecycle, covering the various stages a project goes through before it is ready for customer use. This included planning, development, different software development methodologies, testing, and deployment. This knowledge proved to be extremely valuable during my placement at Ovarro, where I worked within a Scrum-based software development environment.

Software Design And Architecture – Final Grade: 2:1

- In this module, I learned that while anyone can write code, writing clean, well-structured code is a skill that requires intentional effort. Clean code is easily understandable, making it simpler for others to read, maintain, and modify when necessary. I was introduced to various design patterns, standard design processes, and techniques for evaluating software architecture and design.

A-Levels: Business Technology

Manchester Openshaw College

2021

Manchester

Modules

BTEC Level 3 Extended Diploma in Business (QCF) | Introduction To Marketing Distinction | **Internet Marketing** in Business Distinction | **Website Design Strategy** Distinction |

GCSE's (A - C)

Trinity Church of England High School

2018

Manchester

Math's | English Language | English Literature | Science | Religious | Education | History | Physical Education

Experience

Summer Intern Software Engineer – PA Consulting

06/2025 to current

I'm currently working as a Software Engineer Intern at PA Consulting, where I'm collaborating with a team of engineers on a project called Proven Pictures. In today's AI-driven world, distinguishing real images and videos from AI-generated content is increasingly difficult. This project aims to build a solution that verifies the authenticity of media through a series of integrity and metadata checks — helping users determine whether visual content is legitimate.

(More to add...)

Placement Student Software Engineer – Ovarro

07/2024 to 06/2025

- Developed and debugged full-stack features using **JavaScript/Java**, improving front-end functionality and enhancing backend APIs.
- Analysed and optimized legacy codebases, using breakpoints and regression testing to ensure system stability.
- Utilized Docker to test applications in isolated environments, enabling version control and efficient troubleshooting.
- Managed build processes with Maven and maintained deployment consistency across environments.
- Collaborated in an Agile Scrum team with regular sprint planning, daily stand-ups, and cross-functional communication.
- Gained strong proficiency in Linux (Ubuntu) and command-line tools to streamline development workflows.

Interests

One of my interests is playing sports and going to the gym. I started quite young and have loved it ever since, it has taught me skills like **endurance** and **discipline** which has helped me throughout all aspects of my life. I love hanging out with friends and communicating with different people. Adding to that another interest I have is coding projects. My mind is full of many ideas, and I try to make them come to life through code.