

MARC VILLAREAL

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EDUCATION

Queen's University Belfast – GPA (2:1)

BEng (Hons) Software Engineering with Year in Industry

Belfast, Northern Ireland

Sept 2020 – June 2024

Notable Modules: Final Year Project (**77**), Procedural Programming (**74**), Software Testing (**66**), Data Structures Algorithms (**65**), Software Engineering and Systems Development (**63**), Fundamental of Maths for Computing (**63**), Network Security (**62**)

St Mary's Christian Brothers' Grammar School & Hazelwood College, Belfast

Advanced Level, Advanced Subsidiary Level, GCSE

Belfast, Northern Ireland

Aug 2013 – June 2020

- A-level: Score: **AAB** in CCEA Digital Technology, CCEA Moving Image Arts, BTEC Sports.
- GCSE: 9 GCSE's **A-C** (including Mathematics' and English)

EXPERIENCE

ScreenCloud

Software Engineer

Sept 2024 – Dec 2024

- Developed and deployed six key integrated applications for ScreenCloud's digital signage platform, including **Air Quality, Layout Builder, and Quick Post**, leveraging **TypeScript, React, Node.js, AWS Lambda, DynamoDB and SCSS** to enhance customer engagement.
- Streamlined CI/CD pipelines with **GitHub Actions** and **Travis CI**, reducing deployment times and improving build reliability across multiple services. Supported a platform utilised by over 10,000 customers globally, improving digital signage performance and feature extensibility.

Civica

Placement Software Engineer

Sept 2022 – Sept 2023

- Worked on remediating accessibility for NI Direct **GeNI** and **GRO** portals to GDS (GOV.UK Design System) standards and guidelines.
- Assisted in design and development of **DHI** (Digital Health Identity) system using **C#** and **.NET Core**.
- Collaborated in a team to rapidly deliver **COVID Certification Service** which allowed Northern Irish citizens to travel abroad during the COVID pandemic by allowing them access to proof of Vaccination and/or Recovery.

Capita

IT Service Desk Analyst

July 2022 – Aug 2022

- Responded to incoming telephone calls, emails, and logging incidents from **C2K** schools around Northern Ireland.
- Provided **software** and **hardware** support, resolving problems and issues.
- Performed system installations and updates to **prevent service interruptions**.

NOTABLE PROJECTS

Insurify – Final Year Project

Sept 2023 – Apr 2024

- Designed and developed an Insurance Year in Review website with a team of 4 using **Go, MongoDB, JWT, React.js**, and **TailwindCSS**, deployed with **Docker, Rancher** and **GCP** through a **GitLab CI/CD Pipeline**, resulting in an innovative approach to transform the traditional protection review into a digital, non-linear, and unscripted experience. By presenting complex information in an easy-to-understand format, we strived to engage customers in a meaningful way.

ScreenCloud Studio Apps

Sept 2024 – Dec 2024

- Helped develop a unified mono backend platform that powers over 100 applications and integrations for ScreenCloud's digital signage solution used by over 10,000 customers globally using technologies like **Typescript, Node.js, AWS, Travis CI, GitHub Actions, React.js, SCSS** leveraging **TDD** approach.

Niche (Ongoing)

Nov 2024 - Current

- Developing a cross-posting app for content creators, enabling video uploads, account sign-ins, and **AI-generated** captions/hashtags for Instagram and TikTok. Built with **TypeScript, React** (frontend) and **Java, Spring Boot** (backend).

SKILLS AND INTERESTS

- **Languages and Technologies** - *Proficient* with **Java (primary)**, C#, Typescript, React.js, Node, Git, JavaScript, SCSS, TailwindCSS, Docker. *Familiar* with Golang, MongoDB, AWS, Spring Boot, GCP, Kubernetes, Rancher, and MySQL. *Tools* Discord, Slack, Microsoft Teams, vsCode, Visual Studio, GitHub, GitLab.
- **Hobbies & Extracurricular** – Filmmaking, guitarist and gym-goer. Queen's Filipino Society Treasurer - Maintained and handled financial health of the society for 2 years. Queen's Esports – Game Team Captain and NSE All Star Regional's Winner 2022. Took part in Hackathons by Nigma & HKD. (More Information on Website)