

William Oldham

Software and Computer Engineer

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🔗 View my digital CV including a complete list of technologies and work experience

EXPERIENCE

Senior Software Developer and IT Manager

North Lincs Bio Fuels

📅 January 2023 – Present 📍 Lincoln

Responsibilities:

- Manage the company's IT infrastructure, including cloud infrastructure, hosted SaaS products, Microsoft 365 and end-user devices.
- Senior developer of multiple pieces of bespoke software produced from scratch.
- Installation and support of wired networking and VPN solutions for clients.

IT Manager

St Peter St Paul's Catholic Voluntary Academy

📅 November 2019 – March 2023 📍 Lincoln

Responsibilities:

- Planned and oversaw multiple IT projects in printing, IP telephony and wired and wireless infrastructure modernisation.
- Managing all parts of the academy's ICT infrastructure, including networking, printing, telephony, end-user devices (Desktop and Mobile), servers and website.
- The point of contact for Students, Parents, Teachers and Staff for all ICT-related issues.
- Independently create and review ICT procedures to improve the ICT service to staff and students.

Society President

British Sign Language Society

📅 July 2020 – June 2021 📍 University of Lincoln

Level 2 Support Agent & Staff Mentor

Shockbyte

📅 Aug 2017 – Aug 2018 📍 Remote

VOLUNTEERING

Crisis Text Line Volunteer

Shout UK

📅 November 2022 – Present 📍 Remote

🗣️ "Enhancement Week" Guest Speaker

University of Lincoln

📅 November & December 2020 📍 Lincoln

SUMMARY

A multi-disciplinary computer, network and software engineer with skills across different hardware, software packages and programming language. Has strong interpersonal skills and can effectively translate requirements into solutions. Flexible and will adapt to different positions as required. Has good situational awareness and can respond to critical situations efficiently.

STRENGTHS

Problem Solving

Project Management

Self-Motivator

Fast Learner

Full-Stack Development

Android / iOS

Windows / Mac / Linux

System Administration

Network Administration

Kubernetes

EDUCATION

BSc Computer Science

University of Lincoln

📅 2019 – 2022

Grade: First class honours (Average: 82%)

Modules include: Network Fundamentals (88%), Cloud Computing (74%), Team Software Engineering (75%) and Cyber Security (90%).

Dissertation project: Awarded a first (81%) in the topic of automated configuration management.

Level 3 Qualifications

St Peter St Pauls Catholic Academy

📅 2017 – 2019

Achieved a set of results both at A-Level and Level 3 BTEC {A*, D*, A, B} which equated to 200 UCAS points. Because of this set of grades, I went on to achieve the "Excellence Scholarship" from the University of Lincoln.

REFERENCES

References are available on request.

PROJECTS

University 3rd Year Dissertation Project - Themis

[University of Lincoln](#)

📅 October 2021 – May 2022

📍 [Click to view GitHub Project](#)

For my final year, I went through the process of designing, implementing and testing a piece of automation software which I named Themis. At the beginning of the project, I set an ambitious goal of producing a full-stack application, including a client application and a completely bespoke communication protocol. I was able to meet this goal of producing a fully featured application described as “[a] project and report [which] would not be out of place at a top IT consultancy” by a marker and awarded 82% (First).

Technologies used include:

- Vue.JS and Nuxt - Front-end framework and SSR.
- GoLang - Back-end / Client-side programming language.
- Docker - Container application to produce portable applications.
- PostgreSQL and Flyway - Relational database and migration tool.
- Node.JS and Express - JavaScript runtime and web back-end framework.

Cascade Discord Bot

[Open-Source Project](#)

📅 September 2018 – July 2024

📍 [Click to view GitHub Project](#)

For the past four years, I have worked on an open-source project called Cascade Bot, which is a Discord bot designed around customisability. Throughout this project, I have developed experience with a wide range of technologies and practices by designing and setting up a highly scalable bespoke infrastructure.

Technologies used include:

- Java and Kotlin - Back-end programming languages.
- Vue.JS and Nuxt - Front-end framework and SSR.
- PostgreSQL and Flyway - Relational database and migration tool.
- Docker - Container application to produce portable applications.
- RabbitMQ - A message broker to enable real-time communication between services.

Image Processing Project

[University of Lincoln](#)

📅 December 2021 – February 2022

📍 [Source available on request](#)

During my image processing module, I produced Matlab code for processing medical images and attempting to identify red blood cells and bacteria. I was awarded 88% for this project, with my solution being described as “innovative” by markers.

Parallel Programming Project

[University of Lincoln](#)

📅 March 2022 - April 2022

📍 [Source available on request](#)

Throughout this project, I learned how to utilise GPUs to process tasks on a massively parallel scale. My final project was very highly scored at 91%, describing it as “an excellent submission” with code that was “readable, organised clearly, and efficient”.

CERTIFICATIONS

Cisco CCNA

[University of Lincoln](#)

📅 October 2020 – April 2023

🔗 April 2023 - CCNA Certified

🔗 October 2022 - Enterprise Networking, Security, and Automation

🔗 August 2022 - Switching, Routing, and Wireless Essentials

🔗 February 2021 - Introduction to Networks

MTC AZ-900: Azure Fundamentals

[University of Lincoln](#)

📅 December 2020

Credential ID: JmdQ-4TVv

MTA: Networking Fundamentals

[University of Lincoln](#)

📅 February 2021

Credential ID: wMRwq-HaMS

The Lincoln Award

[University of Lincoln](#)

📅 February 2021

Credential Link

MTC SC-900: Security, Compliance, and Identity Fundamentals

[University of Lincoln](#)

📅 October 2021

Credential ID: waCeo-Fa87

MTA: Windows Server Administration Fundamentals

[University of Lincoln](#)

📅 November 2021

Credential ID: F8WA-XLR9

MTA: Introduction to Programming Using Java

[University of Lincoln](#)

📅 December 2021

Credential ID: ynpr-uTBw

MTA: Windows Operating System Fundamentals

[University of Lincoln](#)

📅 February 2022

Credential ID: yHDL-DTPb