## CONTACT

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Leicestershire

## **EDUCATION**

# Coventry University | 2021

Computer Science BSc (1st)

- Programming and Algorithms
- Parallel Distributed Programming
- Operating Systems & Security
- Big Data programming
- Web API Development
- Database Systems
- Software Engineering
- Advanced Algorithms
- Software Design
- Object Oriented Programming

## Baltic Training Services | 2017

## Diplomas in:

- ICT Systems and Principles for IT Professionals
- ICT Professional Competence

# The Nuneaton Academy | 2014

9 GCSE's

Grade A-C including core subjects.

## **LEWIS STOKES**

## Software Engineer

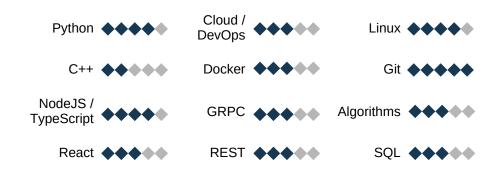
## **PROFILE**

Experienced software engineer, with competency in compiled and scripted languages, focused on back-end systems and end-to-end architecture design.

Previously, I have worked on projects benefiting companies such as Jaguar Land Rover, the NHS, and Orsted.

I am currently looking to remain within aviation, either manned or developing autonomous flight systems.

## **PROFICIENCIES**



## **WORK EXPERIENCE**

## Skylift UAV

Lead Cloud Developer

2023 - PRESENT

- Project owner and lead developer of cloud based Ground Control Station built with NodeJS, Python and PHP.
- Implemented and maintained drone cloud telemetry feed pipelines, with focus on reliability with minimal latency.
- Combined UxV GPS and raw EGM Geoid data to provide 'synthetic' camera views using CesiumJS, with a conscious balance of functionality and optimisation.
- Managed a microservice architecture hosted using AWS EKS.
- Developed and managed bespoke integrations

#### Codebase8 / Davies Group

2021 - 2022

NodeJS Developer

- Main point of contact for the main offshore development team and customer.
- Identified and resolved bottlenecks in deployment processes, leading to a 250% speed increase.
- Automated DevOps CI/CD pipeline using Azure.
- Completed rework of API authentication service.

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## AVIATION

#### Member of:

- Leicester Aero Club
- Husbands Bosworth Glider Club

Current in training towards my PPL.

Building drones in my spare time, and hoping to complete a GVC.

## HOBBIES

- Music
  - Teaching
  - Performing
  - Attending Shows
- Gliding
- Bouldering
- Board Games
- Sailing / Surfing
- Snowboarding

## REFERENCES

Please do not contact directly, Details available on request.

#### **Skylift UAV**

Nick Ruggles | Chief Technical Officer

Codebase8 / Davies Group

Nathan Dickinson | Head of Development

### WORK EXPERIENCE

## **Touch Systems**

Junior Delphi Developer

- Owned development of bespoke plugins for CRM Software.
- Delivered accurate costing mechanisms for industry specific jobs.
- Implemented HOTP and TOTP algorithms from ground up for Multi Factor Authentication.

2016 - 2018

## PERSONAL PROJECTS

### **Multi-Layer Perceptron**

Python & Machine Learning

- Machine learning knowledge exploration, which is capable of solving linear regression problems, and supports gradient descent.
- Plans to expand to more intricate models, where suitable needs arise.

## Sailboat Aerodynamic Simulation

C# & Unity

- Calculations of forces (lift, drag, etc.) in a visual, multipart model simulation, including:
  - Mainsail, Daggerboard, Rudder
- · Gertner waves implementation.

#### Portfolio Website

PHP, React & NodeJS

- Initially developed in PHP due to limited hosting solutions, currently being translated into React.
- Showcase of technical projects, as well as proficiency in maintenance of front-end web applications.

### Conway's Game Of Life Simulation

C++

- Implements the four basic rules of John Conway's Game Of Life, in order to create a cellular automaton time series.
- Use of third party libraries; SFML, nlohmann-json
- C++ design for Windows, including GUI.

## **PERSONAL**

As shown in my hobbies, aviation is a large part of my life, both in and out of work.

I am currently taking flight lessons, and studying towards completing my PPL(A), where I then hope to join the tug pilot crew at Husbands Bosworth Gliding Club.

Outside of aviation, to keep current musically and push myself out of my comfort zone, I attend weekly acoustic jam sessions, as well as open mic nights where I can.