

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

Python	◆◆◆◆◆	Cloud / DevOps	◆◆◆◆◆	Linux	◆◆◆◆◆
C++	◆◆◆◆◆	Docker	◆◆◆◆◆	Git	◆◆◆◆◆
NodeJS / TypeScript	◆◆◆◆◆	GRPC	◆◆◆◆◆	Algorithms	◆◆◆◆◆
React	◆◆◆◆◆	REST	◆◆◆◆◆	SQL	◆◆◆◆◆

WORK EXPERIENCE

Skylift UAV

2023 - PRESENT

Lead Cloud Developer

- 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
- Boulderling
- 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

2016 - 2018

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.

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.