

## CONTACT

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📍 West Midlands

## 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 MOD, Jaguar Land Rover, the NHS, and Orsted.

I am currently seeking meaningful employment on exciting and challenging projects.

## PROFICIENCIES

Python	◆◆◆◆◆	.NET	◆◆◆◆◆	Linux	◆◆◆◆◆
C++	◆◆◆◆◆	Docker	◆◆◆◆◆	Git	◆◆◆◆◆
NodeJS / TypeScript	◆◆◆◆◆	GRPC	◆◆◆◆◆	DevOps	◆◆◆◆◆
React	◆◆◆◆◆	REST	◆◆◆◆◆	SQL	◆◆◆◆◆

## WORK EXPERIENCE

●	<b>Rolls-Royce Submarines</b> EC&I Engineer	2024 - PRESENT
	<ul style="list-style-type: none"><li>• Developed high-integrity software for safety-critical systems.</li><li>• Liaised with adjacent teams on projects requiring nuanced integration, with fully bespoke components at all levels.</li><li>• Worked with rigid requirements and systems specifications, adjusting and creating as needed.</li><li>• Completed numerous technical reviews to complement V&amp;V.</li><li>• Took an active part in Agile, completing multiple product retrospectives and planning meetings.</li></ul>	
●	<b>Skylift UAV</b> Lead Cloud Developer	2023 - 2024
	<ul style="list-style-type: none"><li>• Project owner and lead developer of cloud based Ground Control Station built with NodeJS, Python and PHP.</li><li>• Implemented and maintained drone cloud telemetry feed pipelines, with focus on reliability with minimal latency.</li><li>• Combined UxV GPS and raw EGM Geoid data to provide 'synthetic' camera views using CesiumJS, with a conscious balance of functionality and optimisation.</li><li>• Managed a microservice architecture hosted using AWS EKS.</li><li>• Developed and managed bespoke integrations</li></ul>	

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📍 Leicestershire

## AVIATION

Currently working towards a PPL(A)

Having previously flown powered and unpowered aircraft at:

- Derby Aero Club
- Leicester Aero Club
- Husbands Bosworth Glider Club

## HOBBIES

- Music
  - Teaching
  - Performing
  - Attending Shows
- Gliding
- Boulderling
- Hiking
- Skating
- Sailing / Surfing
- Snowboarding

## REFERENCES

References available upon request

## WORK EXPERIENCE

### 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.

### 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.

### 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

While I am motivated by challenging and meaningful work, I also value a social work culture that respects a healthy work-life balance.

I regularly attend weekly acoustic jam sessions, as well as open mic nights where I can. Outside of this, I have a wide range of interests including history, aviation, engineering, nature and astronomy.