CONTACT

lewis-stokes.onrender.com

✓ lewis.stokes98@gmail.com

+44 7988 632 719

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 GCSF's

Grade A-C including core subjects.

LEWIS STOKES

Software Engineer

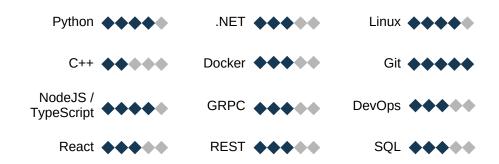
PROFILE

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



WORK EXPERIENCE

Rolls-Royce Submarines

EC&I Engineer

2024 - PRESENT

- Developed high-integrity software for safety-critical systems.
- Liaised with adjacent teams on projects requiring nuanced integration, with fully bespoke components at all levels.
- Worked with rigid requirements and systems specifications, adjusting and creating as needed.
- Completed numerous technical reviews to complement V&V.
- Took an active part in Agile, completing multiple product retrospectives and planning meetings.

Skylift UAV

2023 - 2024

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

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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
- Bouldering
- Hiking
- Skating
- Sailing / Surfing
- Snowboarding

REFERENCES

References available upon request

WORK EXPERIENCE

Codebase8 / Davies Group

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

2021 - 2022

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:
 - o 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.