L / T

Lewis Taylor

Software Dev

📞 Available upon request

✉ Available upon request

📍 London/United Kingdom

👤 GitHub: https://github.com/loowpylew?tab=repositories

🔗 Website: https://loowpylew.github.io/Portfolio_Website/

👤 LinkedIn: www.linkedin.com/in/lewis-taylor-b473ab153

PROFILE

I am a highly motivated software developer with 2 years of experience in developing and maintaining commercial systems/applications. My focus is on delivering high-quality software following agile methodologies, with hands-on experience in backend and frontend development, cloud services, system migrations, automation, and penetration testing. I have experience working with technologies such as PostgreSQL, Python, C#, Java, JavaScript, SSMS, IIS, ODBC, Powershell, NET.aspx.and much more. My excellent communication skills make me a valuable team player, capable of translating client needs into robust software solutions.

WORK EXPERIENCE

Nextrasoft Ltd
Junior Software Developer
Sep 2023 – Present(2yrs)
Hertfordshire, England, United Kingdom | Hybrid

At Nextrasoft, I develop and maintain time and attendance systems for clients such as NHSBT, SuperDry, P&O Ferries, and various other independent businesses. My responsibilities cover a wide range of tasks, including debugging front-end issues, developing business rules for clocking systems and payroll, and streamlining processes for efficiency. I follow an agile methodology, working collaboratively to break down tasks based on priority and complexity.

Key responsibilities include:

- **Feature Development**: Designing and implementing new features and functionality for client systems using agile methodologies.

- **Cloud Infrastructure**: Migrating systems to relevant databases/Web Servers via AWS and Azure, using Powershell for deployment and upgrades.

- **Database Development**: Writing complex stored procedures, table and scalar functions. Performing non-synchronous/asynchronous calls to integrate raw alias/JSON data, and formatting it using JavaScript/HTML, styled with CSS.

- **Performance Optimization**: Enhancing database performance by indexing tables, creating clustered/non-clustered indexes to optimize query execution, reduce dirty reads, and prevent deadlocks.

- **Frontend Development**: Developing responsive front-end systems using HTML, CSS, and vanilla JavaScript. Debugging and isolating errors using web browsers and breakpoints.

- **Automated Testing**: Developing Python scripts for automated tests, utilizing Selenium to test old and new system versions, and verifying object existence and performance (e.g., load times).

- **Penetration Testing**: Conducting security testing on client systems using tools like Kali Linux (dirb, Burp Suite) to identify and patch vulnerabilities.

- **Client Support**: Providing third-party support, such as assisting Superdry with issues related to Windows user groups and resolving payroll process failures.

Footwork Solutions
Junior Software Engineer
3 months

Worked predominantly with PostgreSQL on the backend, creating functions for complex operations related to user data, form creation, and GitHub management. I consulted with public health agencies and law enforcement organizations on sensitive cases.

Key responsibilities included:

- Backend development using PostgreSQL

- Front-end development and GitHub management

- Consultations with public health and law enforcement organizations

PROJECTS

- **Cashier System** – Designed using C++ alongside various libraries to simulate a cashier system found within supermarkets.

- **BugSplatter** – Application - Web Development Unit Tester (Python)

- **PanTrack** – Windows Desktop Application (For more info, click the link) - https://loowpylew.github.io/PanTrack-Official-Website/

- **Crypto Currency Trading Bot Simulator** – Developed using Python to simulate real trade events based on various conditions defined within the trading bot.

- Other projects can also be found on my GitHub

EDUCATION

University of Hertfordshire

2019 – 2022/2023

• BSc (Hons) Computer Science (Software Engineering) – 1st

Courses taken 1st year:
- Models and methods (Discrete Mathematics)
- Platforms for computing (Computer architecture)
- Programming
- Human Dimensions of computing

Courses taken in 2nd year:
- Contemporary issues
- Database Concepts
- Algorithms and data structures
- Computer Science Development
- Operating systems and networks
- Cognitive and social robotics
- The C family

Courses taken 3rd year:
- Project Planning
- Computer Systems Security
- Object Oriented Development
- Software Engineering Practice
- Embedded Systems Development
- Machine Learning and Neural Computing

Access Diploma (Science) Higher education – DDD

2018 – 2019

Oaklands College

2015 – 2016

Level 3 BTEC diploma in Engineering – PPP

Stanborough School (Specialist in Mathematics and Computing)

2010 – 2015

6 GCSEs, grades B-C incl Maths, English and Science including 2 – 3 BTEC's including Engineering.

SKILLS

- **Programming Languages**: Python, C, C#, Java, Assembly, JavaScript, HTML/CSS, SQL
- **Database Management**: PostgreSQL, SQL Server, AWS, Azure Blob Containers

- **Development Tools**: Visual Studio, Codeblocks, IntelliJ, Python IDE, SSMS, GitHub, Linux, Windows PowerShell
- **Web Technologies**: HTML/CSS, Vanilla JavaScript/jQuery, IIS, ODBC, NET.aspx
- **Automation**: Python scripting, Selenium, Powershell
- **Penetration Testing**: Kali Linux, Dirb, Burp Suite
- **Cloud Infrastructure**: AWS, Azure
- **Project Management**: Agile methodologies, Sprint Planning

REFERENCES

- Available upon request