

Cerys Lewis

Computer Science

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Skills

Programming Languages	C#, Python, PHP, Arduino, C, Java
Front-end	HTML5, LaTeX, CSS3, JS, XAML (with Windows Presentation Foundation)
Web Servers // Web Services	Nginx, Apache2, Internet Information Services, Python Flask, REST APIs
Databases	Microsoft SQL, MariaDB//MySQL, SQLite, Redis, InfluxDB, Elasticsearch, Microsoft Access
Miscellaneous Backend	Entity Framework in C# and Microsoft SQL
Operating Systems	Windows, Linux (Debian, Mint, Raspbian)
Networking	RouterOS, DrayOS
Server Management	Windows Server, Debian, Ubuntu Server
Languages	English (native)
Office Productivity	Microsoft Office, Libre Office, GSuite
Interpersonal skills	Critical Thinking, Team Work, Problem Solving, Decision Making

Employment

ABER Instruments

Junior Software Design Engineer

Aberystwyth, Ceredigion

September 2022 - Present

- Working on software to interface with hardware, including writing a library to handle the uploading of firmware to various chips.
- Working as a team to write software to guide the manufacturing department through their build process.

Aberystwyth University, IBERS Department

System Administrator

Aberystwyth, Ceredigion

June 2022 - September 2022

- Working on upgrading the Aber Uni HPC for Supercomputing Wales.
- Managing the HPC SaltStack configuration.

Aberystwyth University, Information Services

Service Desk Assistant

Aberystwyth, Ceredigion

October 2021 - June 2022

- Staffing the enquiry desk and sorting out issues presented by staff and students.
- Working to repair technical issues with laptops including the Aber VPN and other more general Windows issues.

Aberystwyth University, Department of Computer Science

Demonstrator

Aberystwyth, Ceredigion

March 2021 - 2022

- Helping students with their work in Arduino and web development.
- Working with these students on their practical classes and helping them understand various concepts.

Barlows UK Ltd

Office Assistant

Hampton, Cheshire

August 2020 - June 2021

- Monitoring jobs which engineers were carrying out and entering data into various systems.
- Arranging callouts and logging invoices.

Work Experience

Input Squared

Junior Web Engineer

Combermere, Shropshire

February 2020 - April 2020

- Experience with a web development company.
- Unfortunately cut short due to COVID.

Job Logic

Junior Software Engineer

Birmingham, County of West

Midlands

December 2019 - February 2020

- Created a wiki based intranet.
- Experience with Entity Framework.

Galaxy Computers

Computer Repair Assistant

Whitchurch, Shropshire

March 2019 - April 2019

- Computer hardware repair, predominantly laptops.
- Front desk customer support.

Education

Computer Science, BSc

Aberystwyth University

Aberystwyth, Ceredigion

September. 2020 - Jun. 2024

- **Key modules**

- 83% - Introduction to Programming (Arduino C)
- 81% - Modelling Persistent Data
- 74% - Introduction to Computer Infrastructure
- 74% - Fundamentals of Web Development (HTML, JavaScript, and CSS)
- 73% - System and Network Services Administration
- 70% - Programming Using an Object-Oriented Language (Java)

Level 3 BTEC

Cheshire College - South & West

Crewe, Cheshire

September 2018 - May 2020

- **Overall Grade:** distinction*distinction*distinction*

- **Key Modules**

- distinction - Programming (Python, Java, and VB.NET)
- distinction - Data Modelling (Microsoft Excel)
- distinction - Website Development (HTML, CSS, and JavaScript)
- distinction - Project Management
- distinction - Cyber Security
- distinction - IT Service Delivery

GCSEs

Bishop Heber High School

Malpas, Cheshire

September 2013 - May 2018

- **Key Subjects**

- 7 - Computer Science
- 5,5 - Combined Science
- 5 - Mathematics
- 5 - English Language

2018 **Conlan Cup**, For "Significant and valued contribution to the community".

Bishop Heber

High School

Hobbies and Interests

Server and Network Engineering and Management

- In my free time, I maintain a collection of VPSs (Virtual Private Servers) along with several local servers and networking gear. This equipment has given me a fair amount of experience in dealing with server and network management as it has been my hobby for several years.
- **Servers:**
 - Most of my servers run Linux, mainly Debian 11, however, I do run a small handful of Windows Server machines, for services such as Active Directory.
 - I also have experience working with cloud-based service hosting such as Microsoft Azure and Google Cloud Platform.
- **Networking:**
 - I primarily use MikroTik equipment for my network, I use a MikroTik 3011UiAS RM as a core router and a Watchguard Firebox for my firewall.
 - I have previous experience working with DrayTek, Negear, and Cisco gear.
 - I am currently working on a project with a few friends to create a Metropolitan Area Network.
- **Example Services:**
 - **Api** An interface to allow people to read data stored from databases in a secure manner. This has given me experience working with Python Flask.

Software Development

- I have developed a number of programs written in C# Windows Forms, Windows Presentation Foundation, and .NET Console Applications.
- I have also created a number of Python scripts to fulfil various tasks including the API server, the redirects server, and a collection of 'Data Hunters' that are tasked to perform HTML gets on an API endpoint and log the returned data in a database for it then to be visualised in Grafana.

References

References available upon request.