

OSCAR POCOCK

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PROFILE

I'm a final year *Computer Science* undergraduate studying at *Aberystwyth University*, where I'm currently on track to achieve a 1st. I have previous personal and professional experience working with *containers*, *multi-cloud* solutions, and *DevOps* tools & workflows. In my free time, I tinker with new technologies and self-host several personal services locally and across multiple cloud vendors. I'm looking to continue to develop my skills by working with the latest technology in order to drive positive change for organizations and kick-start my career.

SKILLS

Technologies: Ansible, Apache, Azure, Azure DevOps, Docker, GCP, Git, Grafana, KVM, Nginx, Prometheus, Terraform

Operating Systems:

Linux: Arch Linux, Debian, Fedora, Proxmox VE, SLES, Ubuntu

Windows: Windows Server 2019, Windows Server 2016, Windows 11, Windows 10

Soft Skills: self-motivated, teamwork, leadership, communication, problem solving

LANGUAGES

🗣️ Natural	English (Native), French (Fluent)
</> Computer	Beginner to intermediate in the following:
	Programming Languages: Java, Python, JavaScript, Arduino (C/C++), R
	Markup Languages: XML, HTML + CSS, R Markdown, \LaTeX , JSON, YAML
	Scripting Languages: Bash, Powershell
	Querying Languages: SQL (PostgreSQL, MariaDB/MySQL), XQuery

WORK EXPERIENCE

🏢 **Demonstrator** at Aberystwyth University, 📍 Aberystwyth, UK Nov 2021–Present

- Demonstrating for:
 - *System and Network Services Administration*
 - *Fundamentals of Web Development*
 - *Information security*
- Supporting 1st year students in module practicals
- Communicating core concepts and principles in a practical context
- Solving unexpected problems that prevent students from completing the practical

🏢 **Cloud Engineer** at NTT DATA UK, 📍 Birmingham, UK Oct 2020–Aug 2021

- Deployed managed services on **Azure** using **Terraform**
- Wrote high/low-level design and architecture documents
- Documented workflow processes
- Managed resources' metadata of one of the UK's top 5 largest **Azure** consumers. Providing them vital insight into their estate
- Led meetings discussing inherent security flaws with a client's project proposal
- Created and applied cost-optimisation scripts saving £1000s of pounds a month on a client's **Azure** estate
- Automated server enrolment using **Azure DevOps** CI/CD pipelines and **Ansible**
- Helped colleagues learn technologies like **Terraform** and **git**
- Configured patches and content life cycles of a major client's **SLES** servers via **SUSE Manager**
- Wrote **Azure runbooks** and **PowerShell** scripts to automate tasks
- Deployed **Azure Datafactory** to process Big Data and provide important business insights
- Worked as part of a team following **Agile** methods with the aid of **Azure DevOps**

🏢 **IT Technician** at Uckfield College, 📍 Uckfield, UK Jul 2018–Aug 2018

- Managed **Google G Suite** (now **Google Workspace**) using CLI tools like **GAM**
- Created **bash** scripts to automate tasks
- Mass-enrolled Chromebooks for upcoming students
- Wrote documentation detailing the use of scripts and software for colleagues
- Reimaged the college's Mac suite
- Provided hardware maintenance on workstation PCs

CERTIFICATIONS

🌟 Microsoft Certified: DevOps Engineer Expert , <i>Microsoft</i>	Apr 2022
🌟 Microsoft Certified: Azure Administrator Associate , <i>Microsoft</i>	Sep 2021
🌟 Microsoft Certified: Azure Fundamentals , <i>Microsoft</i>	Apr 2021

PROJECTS

Highlighted projects shown below. Full list of projects available at [🔗 git.oscar.blue/noble](https://git.oscar.blue/noble)

🔗 **Autophotographer (University Major Project)*** Jan 2022–Present
Project written in **Python** that uses computer vision to analyse input video and output the most aesthetic frames based on photographic techniques. Using conventional image analysis techniques and a CNN trained on aesthetic photos using **PyTorch**. As part of the project I'm following an adapted **Agile methodology** based on **Scrum**. Using **Terraform**, **Cloud-init**, and **GCP** to deploy GPU-powered resources for training my model.
**(Source cannot be provided until project submission).*

🔗 **Terraform-IaC** Apr 2021–Present
Collection of **Terraform** IaC (Infrastructure as Code) for deploying the services I run on the cloud.

🔗 **home-infra** Jan 2022–Present
Collection of **Ansible** IaC (Infrastructure as Code) for configuring my home servers.

🔗 **Welsh Vocabulary Tutor (University Group Project)** Feb 2020–May 2020
A GUI **Java** program that helps users record and learn Welsh vocabulary.
This was a university group project where I acted as project leader. I taught other project members technologies like **git** and good version control practises. The role required good project planning skills, time-management, relationship-building, and the ability to identify and work on key strengths and weaknesses within the team and myself.

EDUCATION

🎓 **Aberystwyth University** Sep 2018–Present
BSC Computer Science (with integrated year in industry) [G401], (Exp. 1st)
Including the following modules:

- System and Network Services Administration (77%)
- Open Source Development Issues (89%)
- Agile Development and Testing (77%)
- Modelling Persistent Data (80%)
- Machine Learning (73%)

🎓 **Uckfield College** Sep 2011–June 2018
A-Level: French: B, Maths: C, Physics: D
GCSE: 11 A*-C including Maths, English and Computing

INTERESTS

- 🌱 **Environmentalism** – Sustainability is a significant aspect of my life. In order to combat e-waste and financially support my studies, I've recently starting buying broken electronics online, repairing them then selling them. I currently do basic repairs, but I'm learning to solder for more advanced repairs.
- 👤 **Ethical & Open Source technology** – I'm a big advocate for ethical and open source technology. I used to volunteer and act as Technical Director for a non-profit organization (hfet.org - which sadly doesn't exist any more) that raised awareness for ethical technology. We provided security/privacy guides and hosted several user-respecting alternatives to popular services. I also attend numerous Open Source based conferences (FOSDEM, OSFC etc...) to keep up to date on the latest in Open Source.
- 🏠 **Self-hosting** – I self-host a lot of personal services at home and on the cloud. I enjoy learning new technologies to power-up my workflows and lessen my dependence on potentially unsustainable technologies.
- </> **Scripting & Automation** – When I switched to Linux, I found myself using the terminal whenever I faced an issue. Nearly 10 years later, I have numerous scripts and automations that improve my desktop usage. I've also been able to transfer that knowledge to server use-cases.
- 🎮 **Gaming** – When I'm not doing any of the above, I enjoy gaming to relax. It's a good medium for me to interact with my friends who live abroad. I'm also a perfectionist - always aiming to get all the collectibles and achieve the best scores in any game.

REFERENCES

Provided upon request.