

# Aaron Walker

hello.vcra.io | github.com/vcra | linkedin.com/in/awalker-vcra | aaron@vcra.io

## PROFILE

SRE and DevOps Engineer. Experience with Python, Kubernetes, Django, CI/CD, IaC and Automation

## SKILLS

### Programming Languages

Python 3, Java, Kotlin, Arduino C, goLang, Android

### Cloud Technologies

Kubernetes, AWS, GCP, Azure, Openstack, vRA, Heroku, CloudFoundry

### CI/CD & Automation

**CI/CD:** GitLab CI/CD, Argo CD, Travis, Jenkins, Concourse  
**Automation:** Ansible, Terraform

### Observability and Monitoring

Prometheus, Grafana, FluentBit, FluentD, Elastic Stack, Loki

### Version Control

Git & SVN  
GitHub, GitLab, Bitbucket

### Web Technologies

**Backend:** Django, Flask  
**Frontend:** SASS, JQuery

### Databases

**Relational:** PostgreSQL, MySQL/MariaDB,  
**NoSQL:** Redis, ElasticSearch

### Testing and Documentation

PyTest, Junit, Espresso and Selenium  
Sphinx, Swagger

### Other

K8s Operator framework, Hashicorp Vault, JIRA, Confluence, MQTT, Istio, Ngnix

## EXPERIENCE

- **Associate SRE Engineer** at Sky UK September 2019 – Current
  - Designed and deployed Source-to-Image (S2I) Kubernetes cluster using CloudFoundry, RKE and OpenStack.
  - Developed and operated Service Broker to allow for DBaaS deployments atop K8s. Managed monitoring & logging stacks using Prometheus, Loki & Grafana.
  - Initiated project to overhaul neglected internal services, improving security, regaining observability and increasing reliability.
- **President** at AberCompSoc, Aberystwyth University August 2018 – June 2019
  - Organising the student-run Computer Science Society at Aberystwyth University. Included organising trips, such as FOSDEM 2019, holding meetings, allocating budget, working with external organisations such as the BCS and the University, and networking with students.
- **Software Development Trainee (Python/DevOps)** at Amadeus Germany July 2017 - September 2018
  - Developing full-stack Web-Applications using Django. Writing Unit and UI tests with Python and Selenium.
  - Documentation using Sphinx. Developed an IoT Robotics Management Framework with microservices, using MQTT and ELK stack, and hosted on AWS. Creating and managing dashboards using Grafana.
- **Student Subject Ambassador & Demonstrator** at Aberystwyth University February 2016 – Current
  - Advertising the University to prospective applicants. Helping current students with tasks for workshops and practicals.
- **Network Support Placement** at Stonyhurst College July 2015 - August 2015
  - Disk image creation and deployment, cable management, chromebook deployments, Active Directory Configuration, VDI Deployment, IP Phones, Printers, switch configuration, Server rack mounting, Windows Server installation. Technologies included MS Hyper-V, Dell KACE, Dell WYSE, Dell Powerconnect.

## PROJECTS

### **AberCompSoc Website**

A website for AberCompSoc

Source: <https://github.com/abercompsoc/website>

Demo: <http://aberacs.herokuapp.com/>

### **LanguageFlip**

An Android App to help you learn a language, made in Kotlin

Source: <https://github.com/vCra/LanguageFlip>

### **Bucaneer**

A Simple pirate board game, made with Java

Source: <https://github.com/vCra/Buccaneer>

### **Judge0api**

A python client Library for judge0 – an online Judge system

Source: <https://github.com/vCra/judge0api>

## EDUCATION

- **Bachelor of Engineering** in Software Engineering (with integrated placement year) [2015-2019]  
2:1 - Computer Science (BEng) at Aberystwyth University
- **A-Level [2013-2015]**  
A-levels in Computing and Media Studies at Burnley College
- **GCSE [2011-2013]**  
10 GCSE's, including an A\* in English and an A in Mathematics.

## Volunteering

- FOSDEM Volunteer (2018, 2019, 2020)
- Academic Representative – Computer Science
- Aberystwyth Students Union A-Team

## AWARDS AND CERTIFICATES

- Stonyhurst College NCO Cadre Certificate 2013
- Duke of Edinburgh Bronze Award
- RoboCup UK 2014 Junior Soccer National Finalist
- National Citizen Service Award 2013

## REFERENCES

Mr. Kristian Schuhmacher, Senior Innovation Engineer Dr. Antonio Anjos, Lecturer in Computer Science

Amadeus Germany GmbH

Email: [kristian.schuhmacher@de.amadeus.com](mailto:kristian.schuhmacher@de.amadeus.com)

Phone: +49 6172 91-2882

Aberystwyth University

Email: [ara11@aber.ac.uk](mailto:ara11@aber.ac.uk)

Phone: +44 (0) 1970 622950