

Aaron Walker

DevOps Engineering | Python 3 & Django Development

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PROFILE

Final Year Software Engineering Undergraduate at Aberystwyth University. Skills in Python 3, Java, Robotics, DevOps, Web Development, Linux system administration.

SKILLS

Programming Languages

Python 3, Java, Kotlin, Arduino C, Android

Cloud Technologies

AWS EC2, S3, ELB & CloudFront
GCP, Compute Engine
Heroku

Databases

Relational: PostgreSQL, MySQL,
NoSQL: Redis, ElasticSearch

Containerisation

Docker, Docker Compose, Kubernetes and Openshift

Version Control

Git & SVN
Github, Gitlab, Bitbucket

Web Technologies

Backend: Django, Flask
Frontend: SASS, JQuery

CI/CD

Travis & Jenkins

Issue Tracking

Trello, Jira, Github Issues/Projects

Testing and Documentation

PyTest, Junit, Espresso and Selenium
Sphinx, Swagger

EXPERIENCE

- **President** at AberCompSoc, Aberystwyth University August 2018 - Current
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 (In Progress)

A website for AberCompSoc

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

Demo: <http://aberics.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>

mooshak2api

A python client Library for Mooshak2

Source: <https://github.com/vCra/mooshak2api>

EDUCATION

- **Bachelor of Engineering** in Software Engineering (Expected July 2019)
2:1 (expected) - Computer Science (BEng) at Aberystwyth University
- **A-Level (2013-2015)**
2 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)
- 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

Amadeus Germany GmbH

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Dr. Antonio Anjos, Lecturer in Computer Science

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