

Brock Fergus Rupert Fettes-Leagas

PYTHON DEVELOPER

Wantonwells Farm, Inch, Aberdeenshire, Scotland, AB52 6NL, UK

☎ +49 1577 649 1396 | ✉ fergusfettes@gmail.com | 📷 FergusFettes | 📱 fergus-fettes-433b46173

Summary

MSc. in Physics with two years experience in hardware development for microscopy, four years experience in software development (of which two years python) and one year experience as a DevOps engineer in a fast-growing multi-award-winning startup, transforming their services to a scalable microservices design. Happy working in a small, fast paced groups. Comfortable taking control of a project and bringing it to completion with autonomy.

Programming

SOME EXPERIENCE

- Javascript, HTML, CSS - built a website with threejs: www.schau-wien.at
- Matlab, LabView, Rust

PROFESSIONAL EXPERIENCE

- Python: - pandas, websockets, flask, pyaudio, pytest, cython

OTHER

- Linux (bash and tmux scripting), Docker (docker-compose, Dockerfiles), K8s (Microk8s, GPU integration, GCS), Jenkins, Ansible

Work Experience

ONDEWO

Vienna, Austria

PYTHON DEVELOPER

October 2019, present

- Working with an award-winning Austrian startup developing a conversational AI platform for enabling human-machine interactions across multiple sectors.
- Integrating VOIP telephony into a live audio processing microservices architecture. Communicating over websockets/REST/GRPC with multiple third party providers.
- Pro Dockerfile writer, docker-composer and eager experimenter with kubernetes (I run microk8s on my laptop for quick testing). Known for integrating current best practices in docker container design and streamlining CI/CD deployment (Jenkins).

Beas Botanics

Aberdeen, Scotland

DATA ANALYST

April 2019 – July 2019

- Exploratory python work writing software for analysing ebay trends and creating automatic listings using the ebay API.

Molecular Biophysics (MBP, Seidel Lab), Universität Leipzig

Leipzig, Germany

SOFTWARE/HARDWARE DEVELOPER

Apr. 2018 – Nov. 2018

- Designed (with AutoCAD then in-house machining), assembled, developed software for (backend in LabView, data analysis in MATLAB/python) and finally tested a novel microscope setup for single molecule spectroscopy.
- Programming duties centered around particle tracking (machine vision) and UI development. It is currently in used for breakthrough CRISPR research.

Molecular Biophysics (MBP, Seidel Lab), Universität Leipzig

Leipzig, Germany

MATLAB DEVELOPER/ RESEARCH TECHNICIAN

Jun. 2016 - Apr. 2018

- Studying DNA-protein interactions, including wetlab techniques, force microscopy and data analysis. Published with EMBOJ.
- Developed MATLAB software for streamlining data analysis.

Education

Universität Leipzig

Leipzig, Germany

M.Sc. IN PHYSICS

Apr. 2016 - Oct. 2018

- Thesis topic: Development of a highly-parallel Magnetic Tweezers setup for Single Molecule Spectroscopy. Grade: 1,7 (good).

Open University

Milton Keynes, England

B.Sc. IN NATURAL SCIENCES (PHYSICS)

Aug. 2013 - Mar. 2016

- Thesis topic: literature review of novel sensors used in Magnetoencephalography (MEG)

Extracurricular Activity

__Schau Wien

Vienna, Austria

WEB DESIGNER/FULLSTACK ENGINEER

March 2020 - present

- Founding member of an art collective in Vienna. Creating the website (pug/nodejs/threejs) and hosting stack (tried docker+GCS, moved on to static delivery with cloudflare).
- www.schau-wien.at

Python Bootcamp

Auroville, India

PYTHON BACKEND DEVELOPER

Dec. 2018 - Jan. 2019

- Retraining in python backend development. Final project was an app for experimenting with cellular automata.
<https://github.com/FergusFettes/Lattice>