

James Brookes

SOFTWARE ENGINEER

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Summary

Current Scientific Software Engineer at the science agency STFC. 1+ years experience specializing in full-stack development, with a keen interest in DevOps.

Work Experience

Science and Technology Facilities Council (STFC)

Oxford, UK

GRADUATE SCIENTIFIC SOFTWARE ENGINEER

Sep. 2021 - Present

- Lead engineer on migrating services to an easily managble infrastructure (K3s Kubernetes on OpenStack)
- Developed Ansible Playbooks to automate the deployment of Helm packages to the Kubernetes cluster.
- Participated in public outreach events to increase awareness of STEM and the impact of STFC.
- Expanded the potential user base the service by enabling the option to use different scientific software solutions during data manipulation.
- Implemented new Django components in a DRY (Don't Repeat Yourself) manner to improve coding efficiency for all developers.

Skills

DevOps Docker, Kubernetes, Rancher, Podman, K3s, Ansible, Github Actions

Back-end Django, REST API, MySQL, Kafka, ActiveMQ

Front-end Bootstrap, HTML5, LESS, SASS

Programming Python, Java, LaTeX

Projects

Digital Portfolio

React.js

REACT APPLICATION

Github

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Education

University of East Anglia

Norwich, UK

B.S.C COMPUTER SCIENCE

Sep. 2018 - June. 2021

- Final Year Project: Develop a web app to visualise protein sequencing.
- Graduated with a 2:1 grade (3.5GPA)

East Norfolk Sixth Form College

Gorleston, UK

A LEVELS

Sep. 2016 - June. 2018

- Computer Science (A), Physics (B), Mathematics(B), Chemistry (B)