Æsc George

Senior Software Engineer

- ⊙ UK
- @ pf.corporal837@passmail.com
- Public CV: This CV uses an email alias and has some information redacted.

Versatile back-end software engineer driving responsible tech innovation across diverse sectors.

Proponent of responsible technology and technology leadership in the spheres of sustainability, information security, data privacy, and DEI.

Seeking part-time and freelance remote working opportunities worldwide, and hybrid/remote in south Wales.

Additional Info

Pronouns	Pronunciation
he/him/his	Æsc: "ash"

Profiles

in Æsc George
LinkedIn

○ kershope-burn
GitHub

Skills

Python
FastAPI, Flask, NumPy, Pandas

C#
.NET, Entity Framework

Relational Databases
SQL, SSMS, Schema design

Cloud and DevOps
AWS, Azure, Kubernetes, Docker, GitHub, Atlassian

Front-end Development
React, TypeScript, Bootstrap

Project Management
Jira, Confluence, Monday.com

Processes
SDLC, Agile, Scrum, Kanban

Compliance
ISO 27001, ISO 14001, GDPR, SECR, GHG Protocol

Experience

Monolith AI
Senior Software Engineer
June 2022 - February 2024 · Remote

- Developed and maintained SaaS web app (including system design) for training of ML models on large datasets. (Python, AWS, PostgreSQL)
- Tech Lead on a project basis, led cross-functional teams of 2-5 people, including projects to stabilise and scale the microservice architecture. (Docker, Kubernetes)
- Built cross-team relationships and developed the SDLC to improve collaboration and accelerate cutting-edge AI research to production.
- Mentored and supervised team members on a formal basis.
- Led a project to develop an information security management system (ISMS) from the ground-up and successfully certified against ISO 27001 in nine months and on-budget. Maintained ISMS as Security Officer.

Dotdigital
Senior Software Engineer and Sustainability Lead
January 2019 - June 2022 · Remote

- Full-stack development of omnichannel marketing SaaS solution. (C#.NET, MySQL, TypeScript/Angular)
- Migrated legacy code to a cloud-based architecture (Azure, RESTful API), reducing costs and improving stability and performance at scale.
- As Sustainability Lead, headed projects with a multidisciplinary internal team and external partners: made Dotdigital carbon neutral a year ahead of schedule; acquired ISO 14001 certification with a perfect audit two months ahead of schedule; performed internal carbon accounting to a high standard for SECR; convinced leadership to commit to net-zero by 2030.

Garrison Technology
Software Engineer
September 2015 - January 2019

- Helped scale startup from ~10 to ~70 employees.
- Desktop app, mobile app, Firefox, and SOC development. (C++, Java)
- DevOps team lead: development of in-house testing tool (C#) and CI/CD system using Atlassian services and Python middleware for highly complex builds of 100+ repos.
- Designed and continually improved SDLC; managed software releases.
- Installation of hardware to customers; enterprise network debug; technical account management; international cyber security conferences.

Projects

Portfolio

Static site to showcase my skills and projects

February 2024 - April 2024

🔗 https://kershope-burn.github.io

I built this portfolio site with React Bootstrap and Create React App to learn React and TypeScript, and build a professional online presence. I host it for free with GitHub Pages.

React, React Bootstrap, TypeScript, GitHub Copilot

Publications

Superconductor Research

Journal of Physics: Conference Series

2014

🔗 https://t.ly/J6a6e

Published while studying at The University of Cambridge.

Design and market considerations for axial flux superconducting electric machine design: Mark D. Ainslie, Ashley George et al. 2014, J. Phys.: Conf. Ser. 507

Interests

Science and technology

Gaming

Science fiction

Philosophy and ethics

Sustainability

Nature and hiking

Privacy and security

DIY and home improvements

Experience (continued)

ION Group (IT2)   September 2014 - September 2015

Product Development Consultant

- Scoped, developed, and maintained desktop applications for internal use by engineers and CNC operators. (VB.NET)

Spirax Sarco   July 2011 - January 2014

Assistant Production Engineer

- Scoped, developed, and maintained desktop applications for internal use by engineers and CNC operators. (VB.NET)
- Independent learning of memory and speed optimisation, multi-threading, and UI/UX.

Education

University of Cambridge (UK)   October 2010 - June 2014

Materials Science & Metallurgy, Natural Sciences   MSci, BA
2:1

- Modules included computer science fundamentals and applied techniques e.g. MATLAB to model systems, C++ for physical simulations, LabVIEW for voice recognition, Abaqus for finite element modelling.

Pomona College (CA, USA)   August 2009 - May 2010

Liberal Arts   Scholarship
3.9 GPA

- Scholarship from Cambridge awarded to one student each year.
- Created a basic video game with Processing, experimented with neural networks and natural language interpretation in Python.
- Broad selection of classes (including Computation and Cognition, Macroeconomics, Mathematics, Astronomy).

Volunteering

The Access Project   December 2015 - July 2017

Tutor

I met with a state school student from a disadvantaged area once a week, tutoring A-Level physics.

Cats Protection   April 2024 - Present

Fosterer

My partner and I foster cats until they're ready for their forever-home! We take cat care courses to ensure they're fit, healthy, and happy.

Homes for Ukraine   December 2022 - Present

Sponsor

My partner and I provide a safe home for a couple fleeing the war in Ukraine. We help them with life in the UK, emotional support, and building a foundation for their next steps.