

Æsc George

Senior Software Engineer

📍 UK

@ pf.corporal837@passmail.com

Public CV: This CV uses an email alias and has some information redacted.

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, IaC

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

Versatile full-stack 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.

Experience

Monolith AI	June 2022 - February 2024
Senior Software Engineer	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, Terraform)
- 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	January 2019 - June 2022
Senior Software Engineer and Sustainability Lead	Remote

- Full-stack development of omnichannel marketing SaaS solution. (C#.NET, MySQL, TypeScript/Angular)
- Migrated legacy code to a cloud-based architecture (Azure, REST APIs), 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	September 2015 - January 2019
Software Engineer	

- 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

- Developed treasury management software in C++, SQL (SSMS), C#.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
2:1

MSci, BA

- 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
3.9 GPA

Scholarship

- 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.