ÆSC GEORGE
SENIOR SOFTWARE ENGINEER

PROFILE

Name: Æsc *["ash"]* George

This public CV uses an email alias. Private email address, phone number, and address are available on contact.

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pf.corporal837@passmail.com

PROFESSIONAL STATEMENT

Back-end software engineer with over a decade of experience in industries including manufacturing, cyber security, and fintech. Interested in tech for good, responsible technology, and AI ethics.

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

Seeking part-time and freelance remote working opportunities.

TOP SKILLS

Python	Backend development
C#	Relational databases
SQL	Responsible AI
Docker	ISO 27001
AWS	ISO 14001

EXPERIENCE

06/2022 - 02/2024   **Monolith AI – Remote**
Senior Software Engineer

- Python, Docker, Kubernetes, AWS, Athena, SQL, Temporal, GitHub
- Experience with practical applications of ML for training models on large datasets – and the infrastructural needs therein – through to implementing, analysing, and explaining them.
- Experience as a Tech Lead on a project-by-project basis, including projects to stabilise and scale the microservice architecture.
- Advocated for and established pragmatic development practices, including building cross-team relationships to improve collaboration and accelerate cutting-edge AI and ML research to production.
- Enjoyed mentoring and supervising team members.
- Led a project to develop an information security management system (ISMS) from the ground-up and successfully certified against ISO 27001 in nine months. Maintained ISMS as Security Officer.

01/2019 - 06/2022   **Dotdigital – Remote**
Senior Software Engineer and Sustainability Lead

- C#.NET, TypeScript, Angular, SQL, SSMS, PowerShell, Azure
- Full-stack development of omnichannel marketing SaaS solution for B2C, B2B, and NFP marketers.
- Consolidation of acquired SMS technology, including migration of legacy code to a cloud-based architecture (Azure). Worked with RESTful API operating between this and the core solution.
- 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; committed to net-zero by 2030.

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EXPERIENCE (CONT.)

09/2015 -   **Garrison Technology – London**
01/2019   *Software Engineer*

- Python, C#, C++, Java, Android OS, Firefox development, Android Studio, QT Creator, Atlassian
- Helped scale startup from ~10 to ~70 employees.
- Desktop app development in C++ with QT Creator.
- App development for Android OS and Firefox development in C++ and Java.
- SOC development in C++.
- CI/CD team lead overseeing development of in-house testing tool (C#.NET) and ground-up development of CI/CD system using Atlassian services and Python middleware catering to highly complex builds of 100+ repos.
- Installation of hardware to customers; on-site upgrades and enterprise network debug; management of software releases; design of software development lifecycle; technical account management; international cyber security conferences.

09/2014 -   **ION Group – London**
09/2015   *Product Development Consultant*

- Developed treasury management software in C++, SQL (SSMS), C#.NET.

07/2011 -   **Spirax Sarco**
01/2014   *Assistant Production Engineer*

- Developed VB.NET desktop applications for internal use by engineers and CNC operators.
- Largely independent learning of memory and speed optimisation, multi-threading, and UI/UX.

EDUCATION

10/2010 -   **The University of Cambridge**
06/2014   *Downing College*

- 2:1 MSci in Materials Science & Metallurgy; BA in the physical Natural Sciences.
- Superconductor project published in the Journal of Physics: Conference Series.
- 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.

08/2009 -   **Pomona College**
05/2010   *California, USA*

- 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) with overall GPA of 3.9.

09/2002 -   **(School name redacted for privacy)**
06/2009   *(Location redacted for privacy)*

- 5 As at A2
- 10 A-A*s at GCSE

INTERESTS

- Science and technology
- Philosophy and ethics
- Sustainability
- DIY and home improvements
- Hiking
- Gaming
- Science fiction
- Privacy and security

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