

CARIAD ECCLESTON

DETAILS

EMAIL

cariad@cariad.earth

SKILLS

Amazon Web Services

Python

C# .NET

LINKS

cariad.earth

github.com/cariad

linkedin.com/in/cariad

PROFILE

Contract Amazon Web Services architect, infrastructure deployer and backend software engineer with commercial experience with Python and C#.NET on Windows and Linux.

EMPLOYMENT HISTORY

Contract DevOps Engineer, Freyda

Remote / Exeter

Mar 2020

Freyda is a Google-backed FinTech startup implementing machine learning and artificial intelligence to provide insight into unstructured financial data.

I joined Freyda during the platform's early development to lead the design and deployment of architecture in Amazon Web Services.

I take personal responsibility for:

- Designing cost-effective platform architecture
- Developing secure, resilient and highly-tested infrastructure-as-code via CloudFormation, Python and Bash
- Developing Lambda functions and Fargate services with Python and Docker
- Deploying and developing queries for RDS Aurora PostgreSQL clusters
- Deploying and managing the availability of GitLab CI/CD pipelines
- Performing security reviews, as well as making security-related decisions and educating the team about threats and best-practices
- Publishing technical documentation and hosting live knowledge-sharing sessions in person and via online conferencing

Beyond infrastructure, my most significant deliveries include:

- The platform's internal SDK
- A command-line interface to the platform's API
- Automated document imports from third-party SFTP and other providers
- OAuth 2.0 / Single Sign-On
- API user permission model

Contract Software Engineer, NHS Digital

Exeter

Feb 2020 — Mar 2020

- Successfully migrated a life-critical C# .NET SOAP service to C# .NET Core
- Delivered on-time with regularly communicated updates to leadership
- Took personal responsibility for building a new end-to-end test suite to add confidence to the delivery

Software Team Lead, Thomson Reuters

Exeter

May 2005 — Jul 2019

- Contributed to the design, development, test and support of a SaaS platform made up of C#, JavaScript and Golang microservices on Windows and Linux
- Led the DevOps team that successfully migrated the platform from on-premises hardware into Amazon Web Services on-time
- Led a global DevOps team to develop disaster recovery strategies, security practices and Python tooling for business-wide teams

PROJECTS

I maintain a number of Python packages on GitHub at github.com/cariad.

In 2021, I earned a Mars 2020 Contributor badge for my contributions to Boto3, which was used during NASA's Ingenuity helicopter mission on Mars.

In 2022, I released wally.co to help Wordle players share screen reader-friendly results on social media. The app was used 31.1k times per month at its peak and earned mentions on The Verge and Slate.

TALKS

PRISM Exeter

I was invited to pitch a talk about Internet security for LGBTQ+ journalists and communities online, and it was a privilege to discuss how Tor's encryption and onion routing can help to protect Internet users on unsafe networks.

TechExeter

I hosted a talk about managing KMS customer keys in Amazon Web Services, some best practices for their IAM policies, and how to use those keys with Secrets Manager to manage credentials for RDS databases.

London Docklands & Nottingham AWS User Groups

I was invited by colleagues at Thomson Reuters to talk at their local Amazon Web Services user groups about the challenges and our strategies for migrating our SaaS platform from on-premises hardware into Amazon Web Services.

Out & Equal Workplace Summit

I was invited to join Thomson Reuters' LGBTQ+ leadership at the Out & Equal Workplace Summit to share our story about running our global LGBTQ+ employee group as an online community.

EDUCATION

BSc (Hons) Computer Science, University of Salford

Sep 1999 — Sep 2004

UK