Cariad Eccleston

github.com/cariad • linkedin.com/in/cariad • cariad.earth • cariad@cariad.earth

Full Stack Engineer experienced in AWS infrastructure, Python, C# and TypeScript/Node.js backends, and React.js frontends.

Meta-certified frontend developer. IBM-certified full stack + AI developer.

Employment

Freyda
Contract DevOps Engineer, March 2020 – May 2024

- Worked directly with the CTO to plan and deploy SaaS platform architecture in AWS.
- Developed and deployed infrastructure-as-code with CloudFormation, Python and Bash.
- Developed Python backend services to extract and process financial data from PDFs with PyTorch.
- Developed Python and Bash scripts and deployed MLFlow to support MLOps.
- Developed Python backend APIs with lambda-proxy.
- Built and deployed code as Docker containers to Lambda and Fargate.
- Managed PostgreSQL Aurora database schemas with Alembic and ORM with SQLAlchemy.
- Led the development of OAuth 2.0 / Single Sign-On, through Cognito, backend and Vue.js frontend. Wrote customer-facing documentation to guide Identity Provider configuration.
- Trusted to work with third-party security auditors and penetration-testers. Took responsibility for reviewing their findings and leading the development of their suggestions.
- Took responsibility for code security reviews and identified problems such as security fix regressions and user privilege escalation.

NHS Digital
Contract Software Engineer, February - March 2020

- Migrated a C# SOAP service to .NET Core.
- Took responsibility for accuracy and reliability, since clinicians use the service 24/7/365 to provide life-saving care. I identified edge-cases and added additional tests to ensure an exceptionally high degree of confidence.
- Completed the migration on-time, and my approach to testing was spotlighted by the project's leadership.

Thomson Reuters Tax & Accounting
Software Team Lead, May 2005 – July 2019

- Migrated a C# desktop application to AWS-native SaaS with C#, TypeScript/Node.js and Golang microservices.
- Developed and deployed AWS infrastructure-asd-code via Terraform and CloudFormation, with TypeScript/Node.js, Python, Bash and PowerShell tooling.
- Led a global DevOps team to develop best-practices and Python tooling for teams across the business.

Education

Blockchain Specialisation
Taught by University at Buffalo • 2024 • verify at coursera.org/verify/specialization/5WE09CYQHMAI

- Learned about Blockchain, including Bitcoin and Ethereum.
- Built and deployed a decentralised voting application with Solidity Smart Contracts.

LFS250: Kubernetes and Cloud Native Essentials
Taught by The Linux Foundation • 2024 • verify at credly.com

- Learned about Kubernetes architecture and cloud-native observability.

IBM Full Stack Software Developer Professional Certificate
Taught by IBM Skills Network Team • 2024 • verify at coursera.org/verify/professional-cert/9PI2RPOUMSOY

- Reinforced my experience with Django, Node.js, Express.js and React.js.

IBM AI Developer Professional Certificate
Taught by IBM Skills Network Team • 2024 • verify at coursera.org/verify/professional-cert/5KIVIZMH3B4K

- Gained experience using Pandas and NumPy for data science.
- Developed conversational and generative AI APIs with Python and Flask.

Meta Frontend Developer Professional Certificate
Taught by Meta • 2024 • verify at coursera.org/verify/professional-cert/3T6L6ZTNJJCK

- Developed interactive web applications with React.js and Node.js.
- Wrote unit tests for React.js components with Jest.
- Gained experience with Figma, and used it to build user journeys, wireframes and interactive prototypes.

BSc (Honours) Computer Science
The University of Salford • 2004

Open Source

I maintain and contribute to many open-source projects on GitHub at github.com/cariad.

I developed my homepage at cariad.earth (github.com/cariad/cariad.earth) in TypeScript and React.js.

In 2021, I earned a Mars 2020 Contributor badge from GitHub and JPL for my contributions to boto/boto3, which was used during NASA's Ingenuity helicopter mission on Mars.

In 2022, I released wa11y.co (github.com/cariad/wa11y.co) to translate the Wordle game's emoji patterns into accessible text. The app translated 30k+ games/month and was reported on by The Verge, Slate and GameRant.