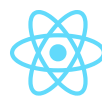# Moray Macdonald

Senior Full Stack Developer

Moray is a flexible and adaptable senior developer with over 10 years experience developing secure, production-ready systems using a broad range of technologies. He has experienced of all parts of the software development lifecycle, from customer requirements gathering, through architecture design and implementation, to ongoing support and administration in production.

Skills

Main Languages

Typescript, Javascript

Other Languages

C♯, Python, Java

Front-end technologies

React, Redux, Apollo Client. HTML5, CSS3 and SCSS. Familiar with WCAG best practices and with GDS (GOV.UK) design principles.

Back-end technologies

GraphQL, Express.js, ASP.NET, Prisma ORM and Entity Framework.

Databases

MySQL, PostgreSQL, Microsoft SQL Server, Cassandra/Scylla and Elasticsearch. Administration of MySQL and SQL Server.

Devops

Git and TFS, CI/CD with Wercker, Drone, Octopus, Bitbucket Pipelines. AWS architecture and administration. Containerisation with Docker and Kubernetes. Administration of on-prem Windows and Linux-based environments and networks.

Other

System architecture design. Confident running Agile (Scrum and Kanban) teams supported by Jira, TFS/Azure Devops and Trello.

Experience

Digital Communities Ltd (formerly Groop) | Lead Developer

SEPTEMBER 2019 – PRESENT, CORSHAM/REMOTE

As their first internal developer, Moray is responsible for all technical aspects of the Groop people management product. Taking over from an external team, Moray had to quickly become familiar with the product's extensive features, codebase, hosting environment, companion mobile app, and a legacy version of the product.

Moray swiftly built a small team of developers to support and expand the product, and put in place Agile processes in conjunction with the customer support and management teams to support development. He has also mentored junior developers.

Moray has been responsible for spearheading several major changes to the product, including rearchitecting the entire data layer to increase performance (over 300x on some operations), and adding video conferencing features in response to the rise in remote working among customers. He has also improved the tooling and documentation around the application, adding CI and streamlining the deployment process.

Moray also manages all aspects of the application hosting, system and database administration. He oversees penetration and load testing, and recently performed a complete migration of all 20 servers to AWS.

BMT Defence and Security | Software Developer

OCTOBER 2015 – SEPTEMBER 2019, BATH

Working with a wide range of Government clients, Moray delivered many projects to production and provided support directly to end users. Moray was involved with all stages of projects from requirements gathering and architectural design as well as developing, testing and support, using whichever technologies suit the customer's needs best, often having to learn

new platforms quickly. Specialisations included front end development, GIS systems, graph database usage and DevOps.

IPL Information Processing (now Civica Digital) | Service Engineer

MARCH 2014 – OCTOBER 2015, BATH

Moray was the technical lead responsible for supporting an IPL-developed platform for secure data exchange. Responsible for the day-to-day running of the system, as well as being part of the helpdesk team supporting the customer. He was also responsible for systems, database and PKI administration and for performing upgrades to the IPL-developed system components.

IPL Information Processing (now Civica Digital) | Software Engineer

SEPTEMBER 2011 – MARCH 2014, BATH

Responsible for building bespoke web-based solutions using ASP.NET, C#, JavaScript and SharePoint. Moray performed low-mid level design of system components as well as taking responsibility for larger functional areas. Other responsibilities included unit testing, basic UI design and requirements gathering with customers.

Education

Durham University | MPhys Physics with Astronomy

OCTOBER 2007 – JUNE 2011

King Edward's School, Bath

1996 – 2007

Contact

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