Nabeel Amjad

📞 07402208504
✉ namjad750@gmail.com

🐙 github.com/nabeelamjad
in linkedin.com/in/nabeel-amjad

Summary

I'm an established Software/DevOps engineer with 10+ years of experience developing software. I've been involved heavily with the cloud (primarily AWS) to build or maintain SaaS solutions running on containers, Linux and Lambda. I am a strong advocate for infrastructure as code using tools such as Cloudformation and Chef as well as containerised CI/CD pipelines since I believe it's the way forward for easy maintenance and scalability with minimal downtime; furthermore, I've spent a great deal of time developing responsive single-page web applications using React (ES6), leveraging Webpack for bundling.

Experience

Feb 19 - Present

Software Developer (contract), Aegon, Edinburgh.

I am currently on an extended contract by Aegon, working on the development of an enterprise service request portal that serves approximately 5000 internal users daily. I am also leading our team with automated code deployment using CI/CD via Jenkins and adoption to the cloud. I work closely with teams from other departments, business analysts and our product owner in an Agile setting to implement new functionality based on the requirements of our internal customers.

These responsibilities include:

- Migration of existing service portal from on-premises servers to AWS and integration of AWS in backend apps.
- Setting up CI/CD pipelines to automate testing and deployment to AWS using Cloudformation and Git hooks.
- Development of the frontend in React, building out new components as required to serve the service portal.
- Refactoring legacy code which introduced performance bottlenecks and adding regression test coverage.
- Setting UI/UX standards for consistent styling and emphasising the importance of code quality and peer reviews.

Sept 15 - Feb 19

Software Developer, Cloudreach, Edinburgh.

Worked as a DevOps and full stack engineer to build out a unified ITSM platform. My main responsibility was to develop a platform to aggregate cloud data (AWS/GCP/Azure); allowing teams to add & synchronise their cloud providers, visualise and query their cloud resources & relationships using D3 graphs and extend the platform using their own custom-written modules that trigger on interval or change of data. The stack consisted of React (ES6), Redux, and Auth0 for the frontend, and Python, Django, NGINX and PostgreSQL (RDS) for the backend. The infrastructure ran on Kubernetes (AWS) and was deployed using CI/CD, Kops, Sceptre and Git. Integration with SQS, SNS, DynamoDB and Redis was also present for data processing and caching.

Some of my responsibilities included:

- Creating separation in React components (container/presentational) to keep code base clean and consistent.
- Developing APIs on Django to interact with the DB and consuming it on React with a custom-built query parser.
- UI/UX optimisation to ensure fast renders (16.6ms/frame) due to heavy use of D3 HEB and sunburst graphs.
- Leveraging new React technologies such as memoisation and error boundaries for a smooth user experience.
- Sceptre development, an in-house (now open source) library to build infrastructure as code (similar to Terraform).
- Implementing an idempotent deployment pipeline to a Kubernetes cluster for backend microservices.

Oct 14 - Sept 15	**DevOps Engineer, Cloudreach, Edinburgh.**
	Assisted customers with incidents on their AWS/Azure infrastructure whilst ensuring SLAs were upheld. Set up monitoring and alerting using Splunk, bootstrapped new servers and their configuration using Chef. Resolved issues on Linux & Windows servers, automated repetitive tasks using AWS Lambda and carried out maintenance and patching using a blue/green deployment strategy. I also provided monthly analysis to clients for their cloud estates on cost savings & security and performed an active on-call rotation to resolve out-of-hours P1 incidents.

Education

2012 - 2013	**MSc Network Security**, Caledonian University, Glasgow.
2010 - 2012	**BSc Computer Networking**, UWS, Glasgow.
	Awarded Court Medal for the most distinguished student of the academic programme.

Technical Knowledge & Expertise

Technology and Frameworks	React, Redux, Webpack, CLI Development, Node, CSS/SCSS, HTML5, Chrome DevTools (debug/performance), Jest, Django, Chef, Splunk, D3, Redis, RabbitMQ, Unity, BDD/TDD, Enzyme, ORMs (Active Record/Django), ServiceNow, Selenium, Behave, Cloud APIs, GraphQL, ELK, NGINX, Electron, Blockchain (Solidity), Websockets
Competency	7+ years of frontend and backend development experience
	6+ years of experience with AWS
	2+ years of experience with Microsoft Azure and Google Cloud Platform
Certifications	AWS Certified Developer, AWS Certified SysOps Admin, AWS Certified Solutions Architect
	Google Apps Deployment Specialist, Google Certified Professional - Cloud Architect

Programming Languages

Proficient	JavaScript (ES5/ES6/Next), Python, Ruby, Typescript
Comfortable	Shell, C# (Unity)

Open Source & Side Projects

vr-data-centre	Self-taught introduction to game design & development, a virtual reality data-centre for a hackathon where users can see and interact with their AWS infrastructure in real-time using an Oculus/Vive VR headset.
sceptre	Primary contributor for a tool which eases deployment of infrastructure as code on AWS using YAML/Python.
poke-api	Developed the only Pokémon GO Ruby library, uses Google protocol buffers for serialisation instead of JSON.
afs2-editor	A scenery editor for a flight simulator, aiding users to visualise, create and edit their scenery in Google Maps.
Miscellaneous	Contributor to open-source software such as authentication library Auth0 and Azure's Chef extension.

Development Tools

Testing	Familiar with various unit & integration testing methodologies, benchmarks and CI/CD pipelines.
Git	Experienced with branches, rebasing, conflicts, tags, release workflow and semantic versioning.
Development	Competent using Linux and macOS for software development and is my preferred choice over Windows.
Containers	Well-versed with the use of Docker containers, Kubernetes (masters, nodes & pods) and container pipelines.

Personal Skills

Languages	Fluent in English, Dutch, Punjabi and Urdu.
Team	Involved in pair programming (in-person and remotely via Slack) and also mentored junior software developers.
Projects	Agile methodologies such as Kanban and Scrum in a sprint-based setting, Waterfall.