

ROSH BEED

- Cloud Consultant with extensive experience in a customer/partner-facing role
- Strong technical skills, including expertise in AWS, GCP, and Azure
- A focus on architecting and developing solutions for scalable, distributed systems
- In-depth knowledge of PaaS, SaaS, IaaS, public cloud, and industry concepts
- Exceptional communication, project management and customer service skills.
- Active participant in local community events, such as Cloud, DevOps & Agile meetups
- Holds over 30 cloud certifications, including AWS re/Start
- Mentors Women in Tech mentorship scheme and holds SC Security Clearance

I am an enthusiastic advocate of technology and am passionate about helping others learn and grow. I am always eager to share my knowledge and skills. My inquisitive nature drives me to explore new concepts and bring innovative ideas to my projects.

For the last five years, I have developed expertise in designing and implementing scalable, cloud-native solutions. I have had the opportunity to work with a wide range of cloud customers, from startups to established companies. Through this experience, I have consistently honed my personal, professional, and technical abilities.

AREAS OF EXPERTISE

Linux: Ubuntu, CentOS, Arch Linux, Gentoo, Shell scripting & CLI usage, Config Management
 Network: Service Mesh, Service Discovery, Load Balancing, Traffic Management
 Security: Authentication (AuthN), Authorisation (AuthZ), Role Based Access Control (RBAC), IAM, OS Hardening
 Databases: Migration, Cloning, Disaster Recovery, Replication & Restore
 Programming: Python, Java, Haskell
 Cloud: AWS, GCP, Azure

DevOps Tools: Terraform, Ansible, Gitlab, Jenkins, CodePipeline
 Containers: Kubernetes, EKS, GKE, Nomad, Docker
 Data Tools: Kinesis, S3, RDS, FSx, DynamoDb, Oracle, NetApp
 Misc: Lambda, API Gateway, Route53, EC2, ELB, CloudFront, Auto Scaling, Pricing (TCO, CapEx/OpEx), Cost/Effort

CERTIFICATIONS

AWS	Google Cloud	Azure
AWS re/Start Graduate	G Suite	Fundamentals Microsoft Azure
Cloud Practitioner	Associate Cloud Engineer	Associate Azure Administrator
Associate Solutions Architect	Professional Cloud Architect	
Associate Developer	Professional Data Engineer	Kubernetes
Associate SysOps Administrator	Professional Security Engineer	KCNA
Professional DevOps Engineer	Professional Network Engineer	CKAD
Professional Solutions Architect	Professional Collaboration Engineer	CKA
Specialty Security	Professional DevOps Engineer	CKS
Specialty Machine Learning		
Specialty Alexa Skill Builder	AWS Partner Accreditations	Hashicorp
Specialty Big Data	Cloud Economics Accreditation	Associate Terraform
Specialty Data Analytics	Accreditation (Technical)	Associate Vault
Specialty Database	Accreditation (Business)	Associate Consul

EXPERIENCE

Cloud Consultant, [HeleCloud](#)

04/2022 - Present

Architected, developed, and operated secure, compliant, resilient, cost-efficient, and high-performing solutions in Cloud and on-premises environments for customers and partners

- Conducted more than 10 Well-Architected Framework (WAF) reviews, automating remediation actions and leveraging the Well-Architected API to reduce review duration by 50%
 - Developed cloud-native tooling and CI/CD deployment processes to enable customers to automatically deploy applications while adhering to security and governance processes
 - Implemented a comprehensive security monitoring system that aggregates findings from multiple AWS accounts and Regions to provide a unified view of security data
 - Deployed a weekly summary email solution that leverages Security Hub custom insights, AWS Lambda, and Amazon SNS to provide administrators with an easily digestible overview of security findings
 - Configured Microsoft Teams real-time alerts to deliver critical security notifications of key accounts within seconds of an issue being identified
 - Delivered a solution for zero-downtime Terraform and AWS provider version upgrades, and conducted workshops to educate customers on best practices for Terraform
 - Delivered technical presentations and demonstrations at customer events, conducted pre-sales discovery sessions and gap analysis workshops, estimated project costs, and ran cloud-native training sessions
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Senior Consulting Engineer, [Automation Logic](#)

05/2021 - 04/2022

[Secure Container Platform](#) via Automation Logic

Productised a solution to deploy production-grade Kubernetes clusters to secure air-gapped environments

- Automated the deployment of a secure Kubernetes cluster within 10 minutes, with pre-packaged dependencies for an offline, air-gapped installation in heavily restricted or regulated environments
- Deployed simulated air-gapped development environments with AWS VPCs, achieving significant cost savings of 90%, compared to building an on-prem dev environment. Maximise cost savings of up to 98% by automating the provisioning and deletion of development environments as needed
- Authored comprehensive design documents and architecture diagrams to define the functional and nonfunctional requirements for security, reliability, performance, maintainability, scalability, and usability

[Innovation Lab](#) via Automation Logic

Designed and implemented a survey tool on GCP to gather feedback from consultants and measure their satisfaction with projects

- Architected and implemented a Disaster Recovery plan, including daily Big Query data backup and restore functionality
 - Collaborated with cross-functional teams to identify, prioritise, and implement new features and enhancements for the Innovation Lab
 - Developed visualisation dashboards and utilised user feedback to improve the tool's features and functionality
 - Conducted user research and usability testing to gather feedback and improve the user experience by 64%
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Consultant, [PA Consulting](#)

12/2019 - 05/2021

Promoted and encouraged the adoption of AWS and cloud technologies within PA Consulting ([Read my post](#) on training and certifications)

- Conducted workshops and training sessions to educate clients on new cloud technologies and best practices
- Developed technical content and reusable resources to benefit the business, viewed by hundreds of engineers
- Organised an AWS GameDay and led workshops on using Terraform
- Earned 27 cloud certifications in AWS, GCP, Azure, Kubernetes, and HashiCorp over a 9-month period
- Guided colleagues in customer engagements and certification exams, contributing to PA's achievement of AWS Premier Consulting Partner status
- Mentored junior members and mentees in the Women in Tech program, resulting in successful transitions to technical roles

[Ori Biotech](#) via PA Consulting

Designed and implemented a cloud-based solution to modernise Ori Biotech's gene therapy manufacturing operations

- Developed a cloud-native architecture and roadmap to reduce costs by 80% through the migration of legacy applications to the cloud
- Conducted a thorough assessment of Ori Biotech's existing infrastructure and identified opportunities for improvement
- Demonstrated the capabilities of the cloud-based solution through live tech demos and POCs, including an AWS Kinesis, Glue, and S3-based streaming data ingest pipeline, an AI/ML capability with SageMaker, and integration with a partner network using DynamoDB, Lambdas, and API Gateway
- Designed a highly available, resilient, and fault-tolerant system with the ability to scale on demand to support Ori Biotech's gene therapy manufacturing operations

[Health Data Research UK \(HDR UK\)](#) via PA Consulting

Architected a three-tier cloud-native content management system on AWS

- Developed a portal that enabled researchers to access 440 health datasets, with over 3.5 million users providing regular information about their health and symptoms for COVID-19 research
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- Built CI/CD pipelines and infrastructure as code using Terraform, including the deployment of Craft CMS
- Delivered educational workshops and architecture reviews to internal and external stakeholders

[UK Home Office](#) via PA Consulting

Seamlessly supported a large and complex public sector cloud transformation project, with no disruption to operations

- Reduced build and release times from 1 day to 6 minutes, resulting in annual savings of £4M through the deployment of a Kubernetes cluster
- Successfully supported 10 third-party applications on an EKS cluster with 10,000+ nodes without any high-priority incidents
- Collaborated effectively with multiple cross-functional teams to ensure the successful implementation of the cloud-based solution, including the integration of new technologies and processes

Consultant, [Zaizi](#)

08/2017 - 02/2018

Configured, tested, and deployed updates to services for UK public sector clients on AWS

- Developed dashboards to extend observability and monitoring of 100s of services
- Created a secure multi-user secrets management system for encryption-at-rest and in-transit

[Department for Business, Energy and Industrial Strategy \(BEIS\)](#) via Zaizi

Built a cloud-based electronic documents and records management (EDRM) platform

- Launched an Alfresco Enterprise Content Management System used by 3,600 government staff
- Implemented a geo-replicated GlusterFS storage system with 4.6TB of data across 70 shared drives to replace an older facility

[Department for Education](#) via Zaizi

Identified and improved processes to deliver value to customers

- Optimised manual data replication from 2 days to just 2 hours, reducing cost by 100k/year
- Introduced automation and CI/CD, reducing deployment times from hours to minutes

Lead Software Engineer, [Heka](#) (previously GoSweat)

05/2017 - 08/2017

Joined the early stages of a start-up to develop a marketplace application to discover local sports facilities

- Led a team of 5 software engineers to develop a marketplace application for discovering local sports facilities
- Spearheaded the development of 3 Java-based microservices and a website with an AngularJS consumption layer
- Developed migration strategy and successfully migrated legacy services from Digital Ocean Droplets to Google App Engine
- Reduced deployment times from 6 hours to 10 minutes with the implementation of CI/CD using Bitbucket Pipelines
- Presented technical demonstrations on Git and Docker and wrote customer-facing content for the launch of the application

Software Developer, [East City Films - VR City](#)

02/2017 - 04/2017

Developed a Virtual Reality and 360° video player for a production company that produces award-winning TV, film, and digital content

EDUCATION

AWS re/Start - Trainee Cloud Engineer, [Amazon Web Services \(AWS\)](#)

07/2019 - 10/2019

I have always been captivated by the potential of technology to make a positive impact on society, which is why I decided to pursue a career in the tech industry. I was particularly drawn to the cloud, with its rapidly growing field and immense potential, so I applied to the AWS re/Start program to transition into this exciting field. The program was full-time, classroom-based, and provided me with the opportunity to learn from industry experts and make connections with potential employers.

The AWS re/Start program exceeded my expectations. Through practical, scenario-based learning and labs, I gained the technical and soft skills necessary for a career in the cloud. I even managed to deploy the serverless website www.roshbeed.com with a build time of 30 seconds using Lambda, DynamoDB, API Gateway, CodeBuild, CodeCommit, and S3.

After graduating from the program, I continued to seek mentorship from an experienced AWS Solutions Architect. I also had the privilege of contributing to the AWS re/Start program by sharing my experiences as a guest speaker, advocating for the program, and coaching and mentoring new students. This experience has been instrumental in launching my career in the cloud and I am grateful for the opportunities it has provided.

Computer Science - BSc, [University of Plymouth](#)

09/2013 - 07/2016

I chose to study Computer Science at the University of Plymouth because I was always fascinated by computers and had a strong interest in Maths and Science. I was particularly drawn to the problem-solving aspect of the course.

My favourite modules were quantum computing and artificial intelligence. I found quantum computing particularly interesting because it is such a new and rapidly developing field. Additionally, the artificial intelligence module sparked many interesting discussions, especially around the ethical implications of AI.

My dissertation provided me with the opportunity to conduct my own research on reducing motion sickness in VR, a topic I was

particularly passionate about. Although the course was demanding, it was also incredibly rewarding. I enjoyed the challenge of tackling complex topics and emerging from the program with a deeper understanding of computer science.

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