

# DHIRAJ NARWANI

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## Summary

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Engineer adept at DevOps automation, cloud consulting, application/infrastructure architectures and development. Experienced in ground-up planning, implementation of core modules and robust testing. Team-player, hard-working and ambitious to learn new skills to be up-to-date with the latest technologies. Focused and committed to solving problems in the most effective and efficient way. Experienced with early-stage startups including creating business plans, financial projections, outlining product vision and raising investment.

## Skills

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### Expert:

- AWS Solution Architect and DevOps
- Jenkins, GoCD, Codeship
- C, Python, Ruby, .NET, Bash
- Chef, Ansible, SaltStack, InSpec
- MSSQL, MySQL, MongoDB
- Git, GitLab-CI
- RHEL 6/7, SUSE, Ubuntu, CentOS
- Windows 2008, 2012R2
- Terraform, Packer, Vault, Vagrant
- Splunk, DataDog
- Serverless - Cognito, API gateway, Lambda, DynamoDB

### Intermediate:

- Azure
- UKCloud
- Docker, Containerization, Kubernetes
- Powershell, Puppet
- Spacewalk, Artifactory, WSUS
- AWS Security/Governance frameworks
- NewRelic, ELK stack
- Application migrations/factory
- HTML, CSS, Javascript, Node.JS
- PostgreSQL, Oracle
- Machine Learning

## Experience

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### CEO & Co-founder

Opsly - London, United Kingdom

Sep 2018 to Present

Founding a technology startup where we are developing a product to save businesses time to get on public cloud (AWS, Azure, GCP, Alibaba) with a simple and easy “drag-and-drop” automation platform. It allows developers to build Cloud and DevOps tooling for businesses without cloud expertise because it automates and generates all the required scripts in real-time. For a business it acts a central hub for visualising, managing and updating cloud infrastructure in minutes. Primary objectives achieved:

- Raising Seed Round of £200,000 investment from Angel investors
- Gathering feedback from over 40+ developers on product vision
- Worked with an outsourced development team to build initial prototype
- Completed Business Plan including 5-year financial roadmap, product milestones and exit strategy

### Infrastructure Engineer

Genomics England - London, United Kingdom

Mar 2018 to Sep 2018

Primarily responsible for creating their AWS cloud strategy covering areas such as architecture design and DevOps best-practices. In charge of scaling and training up their in-house DevOps team on AWS best-practices and DevOps principles. This included regular learning sessions and delegating the appropriate tasks to each member. Working with external consultancies such as Contino and being the primary go-to AWS consultant for GE. During my 6 month contract, I managed to achieve:

- Designed their AWS landing zone including 14 accounts deployed into AWS.
- Designed their CI/CD pipeline and automation workflow for baking AMLs in AWS using Packer, Jenkins, InSpec, Ansible and KMS.
- Worked on various tasks related to configuration management using SaltStack on their existing UKCloud estate.
- Designed AWS architectures related to governance and compliance including autotagging, centralized logging, automated monitoring and billing checks with DataDog.
- Implemented a robust and re-usable Terraform repository structure for writing deployment templates, taking in consideration multi-cloud (Azure, GCP).
- Implemented an automated DR system using AWS Lambda, CloudWatch and SNS to recover their Confluence application from UKCloud into AWS.
- Implemented Jenkins DSL jobs and pipelines to automate the management of Jenkins using Git Webhooks.

### Cloud Systems Engineer

Cloudreach - London, United Kingdom

Oct 2015 - Mar 2018

Built AWS cloud platforms for high-class enterprises enabling them the use of cloud through best practice guidance and cloud tooling. Adopting cloud strategies which are scalable, efficient and innovative for an enterprise to become tomorrow's leader in the industry. Worked as a Cloud Lead on certain projects like BP, HMRC and Aviva, managing a team between 3-10 people. Did regular training sessions with the team including Scrum meeting, sprint demos, planning and technical discussions. Worked with external consultancies like WiPro, InfoSys delegating tasks to their members and managing deadlines for the customer. Here's a list of the top clients:

- **Capital One** - Best practice guidance on Terraform, Chef, Jenkins deployments and configurations in AWS. Conducted various presentations on the pros and cons of provisioning tools in the cloud i.e. CloudFormation (boto3/troposphere/stacker) or Terraform.
- **Affinion Group** - Architected and deployed their estate on AWS using resources such as EC2, ELB, ASG, MongoDB, MSSQL, security groups and VPC networks. Advised them on disaster recovery strategies in AWS and scalable architectures to host their applications.
- **BP** - Part of a cloud service line agile team developing an automated cloud platform consisting of event-driven monitoring, AMI patching, CIS hardening, extensive logging and achieving compliance/governance in the cloud. Delivering story estimation, sprint planning and daily catch-ups with the team members, as well as reviewing and approving pull requests in GitLab. Advising clients within BP on best practice AWS architectures and implementing ad-hoc requests for them on the platform when required.
- **HM Revenue & Customs** - Provided expertise consulting on scalability, high-availability and self-healing in the cloud. Designed high-level AWS diagrams (HLD) for a set of shared services i.e. Jenkins, Artifactory, ELK, GitLab etc... and developed flexible and robust terraform module structures providing integration with their Ansible playbooks.
- **Prudential** - Drafted a cloud governance framework for PaaS services in AWS. This mainly focused on Serverless components such as AWS Cognito, API Gateway, Lambda, X-Ray, DynamoDB and S3. This covered key factors such as security and compliance for each service in context to their mobile application being developed in the pipeline. Finally providing them with suitable recommendations to implement a complete governed Serverless architecture.
- **Aviva** - Been part of an Agile migration factory team developing re-usable Terraform modules and components. Migrating applications from on premise to AWS using Puppet configuration, Jenkins as a CI, Terraform and Packer to provision. Acting as the team lead to advise on best terraform architectures and AWS structures. Independently architected and built a Serverless infrastructure for Aviva's finance team using custom Terraform modules and complex Jenkins pipelines.

Other small engagements as part of my journey with Cloudreach were Philip Morris International, River Island, Lafarge and Jaguar Land Rover.

Developed web-based systems such as content-driven web sites, intranet-based and enterprise web applications for high profile clients. These include The Malta College of Arts, Science and Technology (MCAST), BMW (Muscat Motors Malta) and Blevins Franks.

- Deployed academic and e-commerce websites using DotNetNuke (open source) CMS, including custom module functionality and integration.
- Developed robust library systems, human resource systems and online questionnaires in ASP.NET. These involved large databases containing tables up to 40,000 records of data.
- Extracted images from PSD files and implemented the website's HTML, CSS and animations, taking in consideration SEO and cross-browser compatibility

## Education

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**Master of Science, Advanced Computing** 2014 - 2015

University of Bristol - Bristol, United Kingdom

*Grade: Distinction*

*Modules:* Uncertainty Modelling in Intelligent Systems, Machine Learning, Cloud Computing, Algorithmic and Economic Aspects of the Internet, Programming in C, Computational Bioinformatics, Computational Neuroscience, Robotics, Artificial Intelligence with Logic Programming, Research Skills

**Bachelor of Science, Software Development** 2011 - 2012

MCAST Institute of IT (Technical College) - Paola, Malta

*Grade: First Class*

**BTEC-Higher National Diploma, Software Development** 2009 - 2011

MCAST Institute of IT (Technical College) - Paola, Malta

**BTEC-National Diploma, Software Development** 2007 - 2009

St. Martin's Institute of Information Technology - Hamrun, Malta

## Awards

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AWS Certified Solutions Architect - Associate

## Languages

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Bilingual English/Maltese

## Interests

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My interests include sports such as football and running. I also enjoy gym workouts, swimming and tennis. I like travelling around the globe to learn about new cultures and try different sorts of food. I also enjoy reading articles and books about the latest technological and startup trends and also the occasional crime/drama to keep me occupied.