

# Joe Alamo-Keilty

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**A DevOps & Security Engineer striving for excellence with experience consulting and leading a DevOps transformation in a high growth global agency across 20 concurrent projects.**

Versatile background of architecting large scale cloud-based systems and graduating with a first class honours in Computer Security. Multiple cloud, networking and security certifications combined with infrastructure & security consulting experience have broadened knowledge and enhanced communication skills. Proven ability to rapidly learn new skills combined with detail oriented approach enables success in these evolving industries.

## EMPLOYMENT EXPERIENCE

### DevOps Engineer at hedgehog lab

11/2017 - Present

- Led DevOps transformation, inspiring DevOps culture, collaborating closely across engineering and product departments and mentoring other DevOps engineer while continually meeting KPIs early
- Automated AWS infrastructure setup with CloudFormation (infrastructure as code) and custom Bash scripts, reducing setup time from hours to 15 minutes
- Implemented Docker based CI/CD systems for 4 separate platforms (Django, React, Android, iOS) on over 20 projects
- Provided consulting to project teams, assisting with specialised knowledge areas such as networking & security
- Created base projects for different platforms to establish best practices and convert local discoveries during projects into global learnings for the entire organisation
- Reinforced critical internal systems (Gitlab server, Sentry, CI/CD workers), creating and practicing disaster recovery & failover plans

### Infrastructure Consultant for Ocucon

01/2019 - Present

- Aiding the expansion across the UK and into the US - moving to hybrid cloud architecture, process improvement, automation, performance optimisation and monitoring

### Security Consultant for Wriggle Security

08/2017 - Present

- Conducted security audits for multiple small & medium businesses in the North East of England
- Trained developers how to conduct web application security tests and to produce vulnerability assessment reports, personally conducted 2 network security assessments of SMEs
- Wrote custom packages for WiFi Pineapple & BashBunny for WiFi penetration testing & physical access penetration testing

### Lead Software Engineer at Koios Technology

09/2016 - 11/2017

- Led a mixed team of designers, QA & developers to build a cloud based CCTV storage & retrieval solution (Ocucon)
- Initially architected for Google Cloud, solution helped company become a Google Cloud Partner in the UK
- Converted architecture to bare-metal solution in a datacentre, personally responsible for £250,000 of server equipment
- Created custom in-store servers integrating with CCTV cameras in store, recording & uploading 1080P footage from 32 cameras constantly - 17 GB per day, per store
- Designed network architecture, storage system and footage processors to scale up to thousands of stores
- System met highest grade requirements under BS EN 62676 surveillance system standards

## LAMP Developer at SGP Consulting & OnBoard Pro

08/2014 - 02/2016

- Internship and part-time work during university, in a consultancy agency working on client projects from day 1 with multiple languages (PHP, JS, C & C++)
- Primarily worked on a pre-tenancy software-as-a-service startup (OnBoard Pro), expanding the team from 5 to 30 employees, with the system in active use by over 200 estate agent branches
- Honed full-stack development skills in a fast paced environment, integrating with numerous APIs such as Endatio (credit checking), DocuSign (creating legally binding tenancy agreements), TextLocal (SMS tenant referencing) and GoCardless (automated Direct Debit billing system)

## CERTIFICATIONS & AWARDS

2018      **AWS Technical Professional**

2017      **Google Cloud Platform for Systems Operations Professionals Specialization**

2016      **Accenture Prize for Best Student on BSc (Hons) Ethical Hacking for Computer Security**

2016      **Certified Ethical Hacker (ECC82526498671)**

2016      **Cisco Certified Network Associate (Level 1, 2, 3 and 4)**

## ACADEMIC EXPERIENCE

### BSc First Class Honours in Computer Security, 85%

09/2012 - 06/2016

Northumbria University, Newcastle upon Tyne

- **Dissertation** - Developed a multi-factor authentication system using a fingerprint biometric device, communicating with a backend web application. Devised a lightweight secure authentication protocol suitable for low resource devices
- **Network Security** - Created FTP brute force attack tool and a 3-layer Botnet in C using TCP sockets
- **Network Technology** - Building enterprise level global networks
- **Web Application Security** - Penetration testing multiple web applications and re-architecting to fix security vulnerabilities
- Treasurer of Northumbria University's Drone Enthusiasts Society

### St. Thomas More Sixth Form

09/2010 - 06/2012

- Information and Communication Technology – B, Mathematics – C, Ethics & Philosophy – B

### St. Thomas More High School

09/2006 - 06/2010

- 12 GCSES A\* - B (Including English, Maths & Science at A\*)

## INTERESTS

- Discovering new music from varied genres and collecting records when travelling
- Building discipline and improving my fitness through weight training and healthy cooking
- Learning about cryptocurrencies, blockchain technology and their security

## REFERENCES

Available on request