



# Alessandro Buonerba

SOFTWARE ENGINEER · DEVOPS ENGINEER

Puebla, Mexico

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“The future belongs to those who learn more skills and combine them in creative ways.”

## Education

### University of Greenwich

London, United Kingdom

BSc IN COMPUTER SCIENCE (CYBERSECURITY)

Mar. 2018 - Aug. 2022

- Graduated with First Class Honours, achieving a 1st in all modules.
- Participated in various cybersecurity competitions, including Capture The Flag (CTF).
- Engaged in extracurricular activities such as the Cybersecurity Society
- Developed a strong foundation in cybersecurity principles, network security, and ethical hacking.

## Skills

**DevOps** AWS, GCP, Docker, Kubernetes, GitHub Actions, Bash, Terraform, CircleCI, GitOps (ArgoCD)

**Back-end** FastAPI, Node.js, GraphQL, Cats, Cats Effect, REST APIs

**Front-end** React, HTML5, CSS

**Programming** Scala, Python, Go, TypeScript, Elixir, Lua, Bash

**DBs & Data** BigTable, BigQuery, AuroraDB, DynamoDB, RDS

**Languages** English, Italian, Spanish

## Experience

### Kaluza

London

SOFTWARE ENGINEER | DEVOPS | IAM SPECIALIST

Jun 2021 - Present

- Led Identity Provider (Keycloak) integration, enhancing security and streamlining infrastructure for an estimated \$3,000/month in cost savings.
- Developed a robust load testing framework ensuring 99.99% uptime.
- Developed Go-based data scraper to mitigate a major cyber incident, securing >800 accounts, preventing >100k user data exposures.
- Managed Out-Of-Hours (OOH) rota, improving operational readiness, streamlining incident response, and ensuring 24/7 service coverage.
- Delivered critical data migration support, rapidly providing complex PDF rendering solutions.
- Optimised CI/CD efficiency, building validation tools, reducing average build times by >80% (11 to 2 minutes), enhancing developer experience.
- Enhanced operational security, patching >200 repositories to simplify vulnerability resolution and strengthening critical service infrastructure.
- Spearheaded automation initiatives, migrating >40 repos to GitHub Actions (\$50,000+ annual savings), reducing manual support by 15-20%.
- Developed Authorisation Decision Point (Adept) in Scala, a core HTTP service simplifying real-time access queries and enabling granular control.

### OVO Energy

London, United Kingdom

SOFTWARE ENGINEER

Jun 2020 - Jun 2021

- Engineered customer-facing features with React, TypeScript, and Styled Components for the Energy Insights team.
- Delivered personalised recommendations that empowered customers to reduce energy consumption.
- Built numerous reusable React components for both web and mobile (React Native), streamlining cross-platform development.
- Developed organizational CircleCI orbs for internal teams, enhancing CI/CD standardization and reusability.
- Managed and optimised cloud infrastructure on AWS and GCP, ensuring robust CI/CD with CircleCI for automated deployments.

## Certificates

2024 **AWS Certified Developer – Associate**, Amazon Web Services (AWS)

2023 **AWS Certified Cloud Practitioner**, Amazon Web Services (AWS)

2023 **AWS Certified Solutions Architect – Associate**, Amazon Web Services (AWS)

2024 **HashiCorp Certified: Terraform Associate (003)**, HashiCorp

2023 **HashiCorp Certified: Terraform Associate (002)**, HashiCorp