

Alessandro Buonerba

Senior Software Engineer · SRE & DevOps · IAM Specialist

Puebla, Mexico

📞 (+52) 2221333178

✉️ hello@dieman.dev

🌐 dieman.dev

🔗 Dieman89

🌐 in buonerba

Education

University of Greenwich

BSc in Computer Science (Cybersecurity)

London, United Kingdom

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

Cloud & Infra AWS, GCP, Azure, Docker, Kubernetes, Helm, Terraform
CI/CD GitHub Actions, CircleCI, ArgoCD
Languages Scala, Python, Go, TypeScript, Elixir, Lua, Bash
Backend FastAPI, Node.js, Cats Effect, GraphQL

Frontend React, React Native
Mobile Swift, SwiftUI, SwiftData
Databases BigQuery, BigTable, Aurora, DynamoDB, RDS
Spoken English, Italian, Spanish

Experience

Kaluza

Software Engineer | SRE & DevOps | IAM Specialist

London, United Kingdom

Jun 2021 · Present

- Built RFC-compliant SCIM API in TypeScript with comprehensive dashboard for user provisioning and identity lifecycle management.
- 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

Software Engineer

London, United Kingdom

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 Amazon

2023 AWS Certified Cloud Practitioner Amazon

2024 HashiCorp Certified: Terraform Associate (003) HashiCorp

2023 HashiCorp Certified: Terraform Associate (002) HashiCorp

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