Alessandro **Buonerba**

Senior Software Engineer · SRE & DevOps · IAM Specialist

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Education

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University of Greenwich
BSc in Computer Science (Cyber Security)

London, United Kingdom
Mar 2018 · Aug 2022

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

Skills

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Cloud & Infra	AWS, GCP, Azure, Docker, Kubernetes, Helm, Terraform	**Frontend**	React, React Native
CI/CD	GitHub Actions, CircleCI, ArgoCD	**Mobile**	Swift, SwiftUI, SwiftData
Languages	Scala, Python, Go, TypeScript, Elixir, Lua, Bash	**Databases**	BigQuery, BigTable, Aurora, DynamoDB, RDS
Backend	FastAPI, Node.js, Cats Effect, GraphQL	**Spoken**	English, Italian, Spanish

Experience

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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

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2024	**AWS Certified Developer** — Amazon	2024	**HashiCorp Certified: Terraform Associate (003)** — HashiCorp
2023	**AWS Certified Cloud Practitioner** — Amazon	2023	**HashiCorp Certified: Terraform Associate (002)** — HashiCorp

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