

# Mohammed Zeerak

## Software Engineer

✉ [zeerakmohammed@gmail.com](mailto:zeerakmohammed@gmail.com) ☎ +44 7474415144

🌐 <https://github.com/zeerakmo>

Software engineer with extensive experience delivering scalable backend systems and driving architectural improvements across financial and SaaS domains. Expert in Golang backend development and distributed systems. Adept at leading end-to-end delivery, scaling complex platforms, and aligning technical strategy with business goals. Known for elevating team performance through mentorship, architectural leadership, and customer-focused delivery.

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## Experience

### ScienceLogic/ Software Engineer

Oct 2023 - Present, London

Lead backend engineer for the Restorepoint platform, enabling thousands of companies to manage, automate, and back up millions of network devices.

- **Scaled platform performance** to support enterprise customers managing **~400,000 network devices**, ensuring stability and responsiveness under heavy load.
- **Architected and developed full-stack solutions** (Golang, TypeScript/React) to deliver end-to-end features from concept to production, streamlining team ownership and reducing handoff delays.
- **Led CI/CD migration** from GitLab to GitHub Actions, redesigning workflows for faster, more transparent deployments, integrating code coverage and static analysis for higher code quality.
- **Drove customer adoption** by delivering targeted features based on direct client engagement — resulting in **70% of legacy users upgrading** within two quarters.
- **Rapidly responded to critical customer issues related to agent deployments**, designing and deploying hotfixes swiftly to minimize downtime and restore full functionality, ensuring high customer satisfaction and operational continuity.
- Secured two of the company's largest customers by planning and delivering an **overhaul on the security architecture**, migrating from disk-level to application-level encryption, directly addressing critical client concerns.
- Standardized development environments with Docker and container orchestration in Kubernetes, Simplifying the creation of test environments and ensuring the path to testing is as frictionless as possible.
- Revamped testing framework and introduced comprehensive regression test suites, significantly reducing release-related escalations.
- **Introduced performance monitoring** with Prometheus and Grafana, enabling data-driven scaling strategies and reducing latency for large-scale clients.
- Championed Golang best practices, **mentoring front-end engineers and leading architectural discussions** that shaped platform direction and improved cross-team alignment.
- **Reduced operational overhead** by designing a new admin infrastructure service, freeing engineering time and empowering sales/SRE teams to self-service critical tasks like license creation/renewal.
- Primary engineer and point of contact for major platform upgrades, such as the "Domains" project. This work restructured the platform so each customer's data and devices were contained within their own domain, while still allowing necessary links between entities. This change gave MSPs the ability to securely manage multiple clients in Restorepoint without risk of data leaks, and played a **key role in winning several new customers**.

### ESG Book / Golang Software Engineer

SEP 2022 - Aug 2023, London

Delivered scalable, cloud-native data and analytics solutions for ESG products using both Golang and Python

- **Architected and delivered** high-performance Golang microservices, using Goroutines and channels to optimize concurrency and scale seamlessly with rapidly growing data ingestion volumes.
- **Developed and integrated** Python-based automation into data pipelines, eliminating repetitive manual tasks and accelerating ingestion and transformation workflows.
- Embraced DevOps side of the role by automating cloud infrastructure with Terraform and using Helm charts, improving environment consistency and enabling **frequent, stable releases** as release cadence and content increased.
- Engineered reliable inter-service communication with Pub/Sub and gRPC, increasing system resilience and reducing processing times.
- **Introduced and championed** the use of Prometheus monitoring, creating visibility into service health and performance. These metrics directly informed product design and prioritization, improving engineering decision-making across teams.
- Consistently delivered production-ready code while embracing the company's culture of autonomy, continually developing my skills and contributing to a high-performance engineering environment.

## Barclays Investment Bank / Software Engineer

SEP 2021 - SEP-2022, Glasgow

- **Seamlessly integrated** into a global agile team mid-project, delivering immediate value in regulatory trade reporting workflows.
- **Designed and owned** the trade replay workflow adopted across the department, improving efficiency and accuracy in regulator submissions.
- Automated enrichment processes with Python, **improving throughput and reducing error rates**.
- Acted as **Subject Matter Expert** on KDB/q processing for stakeholders, bridging technical and business understanding.

## Barclays Private Bank / Software Engineer Summer Intern

JUN 2020 - AUG-2020, Glasgow

- **Architected AWS-based data ingestion POC** (Glue, Lambda, S3, Redshift, EC2) replacing legacy systems, achieving **35% faster processing**
- Presented proof-of-concept to senior leadership, securing buy-in and shaping the future data platform roadmap.

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## Education

### University of Glasgow / BSc in Computer Science with First Class Honours

Projects and area of studies included:

- Dissertation on bias in facial detection algorithms.
- Projects on sentiment analysis of political discourse and AI agents for COVID-19 safety environment

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## Technical Skills

- **Backend:** **Go**lang (microservices & monolithic), **gRPC**, **REST APIs**, concurrency with **Goroutines** and **channels**, **Python** scripting & automation.
- **Cloud:** **AWS** (**Glue**, **Lambda**, **S3**, **Redshift**, **EC2**), **Google Cloud Platform** (**Kubernetes**, **Pub/Sub**, **Cron** workflows), **Terraform** (IaC), **Helm** (**Kubernetes** deployment management).
- **Data:** SQL & NoSQL databases (**MongoDB**, **MySQL**, **PostgreSQL**, **SQLite**, **KDB**)
- **CI/CD:** Pipeline design & migration (**GitLab CI** to **GitHub Actions**), **Argo** workflows, automated testing & deployment, code coverage and static analysis integration.
- **Monitoring:** **Prometheus** (metrics collection), **Grafana** (dashboards & visualization), **SonarQube** & **Coverity** (code scanning and quality assurance).
- **Security:** Application-level encryption, secure multi-tenant architecture (domains segregation), security improvements in codebase and infrastructure.
- **Frontend:** **TypeScript**, **React** framework

## Soft Skills

- **Communication** at different levels of technical literacy including both verbal and written, ensuring clear understanding across diverse audiences.
- **Integrity** by delivering work to the highest standard, and openly communicating any limitations rather than compromising quality.
- **Time Management** that allows me to prioritize and meet deadlines effectively within fast-paced projects and agile sprints without sacrificing quality.
- **Collaboration** and **leadership** skills that foster teamwork, encourage feedback, and mentor peers to raise overall team performance.
- **Adaptability** and a **continuous learning** mindset, embracing new technologies and feedback to grow personally and contribute more effectively.
- **Analytical problem-solving** with the ability to break down complex issues into practical, scalable solutions aligned with business goals.

## Core Skills

- Driving platform scalability and leading architectural improvements to support product growth and performance.
- Translating complex business requirements into scalable, secure technical solutions that deliver measurable ROI.
- Leading cross-functional initiatives while mentoring and empowering engineering teams for higher productivity.
- Building secure, reliable, and maintainable systems that consistently meet tight deadlines and business objectives.