RODRIGO DIEZ

Software Engineer & Solutions Architect

📞 +44 (0)7513 638 225   @ rodrigo@rodrigodiez.io   📍 London, UK   ☆ https://github.com/rodrigodiez

SUMMARY

Experienced Software Engineer and Tech Lead with 15+ years of experience and a background in designing and implementing Microservices, Distributed Systems and supporting all aspects of the software lifecycle, from conception to production, including incident management.

Proficient in Golang, gRPC, Kafka, NoSQ, Kubernetes. Bringing background experience with other languages and, technologies as well.

Constantly recognised as a high-impact individual with a strong entrepreneurial mentality, driven by value delivery, cost-effectiveness and knowledge sharing.

Experienced in leading teams to up to 10 engineers, working closely with product managers and other stakeholders, mentoring junior engineers, performing code reviews, and driving the adoption of best practices.

WORKING EXPERIENCE

Senior Software Engineer

Improbable Defence   📅 10/2020 - 02/2023   📍 London, UK

🔗 https://defence.improbable.io/

- **Led the Applied Performance Team**. Responsible for the design and implementation of holistic, automated benchmark tooling to gather data on the performance of Improbable's Defence Platform as a whole, identifying bottlenecks and working with other teams to mitigate them. Stack: Go, gRPC, Kafka, Kubernetes APIs, InfluxDB, C++, Python, OpenTelemetry, Grafana.
- **Led the Mallards Insights Team**. Responsible for the design and implementation of distributed services to provide live-streaming, playback and data aggregation capabilities for observing high scale Entity Component System simulations running on Improbable's Defence Platform (>1M entities, >100k op/s). Stack: Go, gRPC, Open API, Cassandra, PostgreSQL, Redis, Python, Dash, Kubernetes, Grafana.
- **Led the Partner Engineering Squad** during 6 months as part of a successful 1-year Technical Demonstrator project for the UK Army to help inform requirements for the Army's Collective Training Transformation Program (CTTP). Owned the technical integration of multiple partner solutions and Improbable's Defence Platform, including the integration of VBS4, a 3D military training solution, and Improbable's Simulation Runtime. Stack: Go, gRPC, C++, Kubernetes.

TECHNOLOGIES

Languages

Go   Python   Typescript / Node.js

PHP / Symfony   C++   Swift

Storage / Indexing / Messaging

Kafka   PostgreSQL   TimescaleDB

Amazon DynamoDB   Cassandra

InfluxDB   Amazon SQS   Elasticsearch

Amazon SNS   Redis   Amazon S3

Google BigQuery

APIs

gRPC   Kubernetes APIs   Open API

OpenID Connect   OAuth 2.0

Orchestration

Kubernetes   Amazon ECS

Amazon Lambda

CI / CD

Bazel   CircleCI   Buildkite

Github Actions   Jenkins

Other

Protocol Buffers   Performance profiling

Open Telemetry   Terraform   Ansible

Helm   Prometheus   Grafana

DataDog   New Relic   PagerDuty

Staff Engineer

Kobalt Music   📅 09/2017 - 10/2020   📍 London, UK

- **Member of the Technical Design Authority Group**. Responsible for proposing and reviewing cross team initiatives to evolve Kobalt's technical landscape in areas such as Authentication, Authorisation, Testing, Monitoring, Observability and Incident Management.
- **Led the AWAL Analytics team**. Responsible for delivering solutions to help music artists and labels to understand the performance of their recordings rights in the market involving the processing and analysis of high amount of data from streaming services (e.g. Spotify, Youtube, Apple Music, Amazon Music...) and the development of customer-facing web and mobile applications. Stack: Go, gRPC, Node.js/Typescript, DynamoDB, Elasticsearch, BoltDB, Apache Spark, AWS Batch, AWS Lambda, AWS SQS, AWS SNS, AWS Elastic Container Service, Terraform.
- **Member of the Platform team**. Responsible for the development of tooling and solutions to empower the rest of Kobalt's product teams to build, deploy and operate software safely and cost efficiently as well as involved in the execution of a Kobalt's migration from on-premises hardware to the Cloud (AWS ECS). Stack: AWS Elastic Container Service, Docker, Terraform, Ansible, OpenID Connect (Okta and Auth0), Node.js, PHP / Symfony, PagerDuty, DataDog.

Senior Software Engineer

BrightTALK   📅 03/2014 - 07/2017   📍 London, UK

- **Member and eventually Technical Lead of the Portal Engagement Team**. Responsible for creating and maintaining BrightTALK's video portal application and maximising user engagement in the platform. Stack: PHP / Symfony, AngularJS, Redis, Docker, New Relic, Ansible.

Co-founder & CTO

Netropy   📅 05/2011 - 02/2014   📍 Spain

Netropy existed to help entrepreneurs and early startups to define and launch their MVPs out into the market, by providing them with technical expertise, software development services and solutions.

- Helped more than 10 entrepreneurs and startups from Spain and the rest of the EU to develop and launch their MVPs. Stack: PHP / Symfony, jQuery, Ansible.
- Scaled the company to up to 7 people, during a severe economic crisis.

Previous roles

📅 07/2008 - 05/2011   📍 Spain

Worked across multiple industries including News Publishing, Advertisement and Consulting, accumulating experience as a Software Engineer in multiple stacks, problems and solution spaces.

More information of these positions and companies can be provided upon request.

B.Sc. Computer Science, Systems Engineering

University of Salamanca. Spain   📅 09/2004 - 06/2008

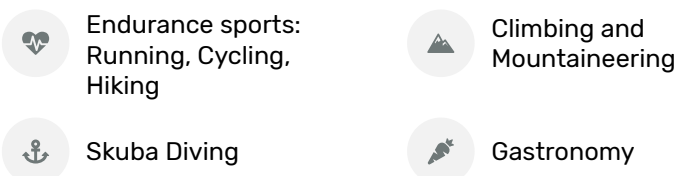## B.Sc. Computer Science, Application Development

Colegio Amanecer Alcorcón   📅 09/2000 - 07/2002

English   Proficient   Spanish   Native

- Endurance sports: Running, Cycling, Hiking
- Climbing and Mountaineering
- Skuba Diving
- Gastronomy

Traveling and learning about other cultures

Science