

FILIPE FREIRE

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EXPERIENCE

KONG INC

Remote | 10/2021 – Present

Senior Software Engineer, Insomnia API Client Open Source + SaaS

Infrastructure + Reliability

- Reduced 5 day manual release processes for Insomnia Client to 30 minute automated, 1-click pipeline process using GitHub Actions
- Reduced cloud costs (1/4th reduction) and fulfilled compliance cloud security requirements by designing GCP based infra using Cloud Functions with Remix and migrating off Vercel Next.js.
- Executed multi-environment cloud support by migrating off legacy PostgreSQL databases version to latest version across multiple environments, migrating the Insomnia client to npm workspaces, reducing developer time on Docker image building and caching, and implementing DB migration control and versioning with sqlc scripts.
- Spearheaded deployment efforts as well as infrastructure scaling and migration for the biggest release in Insomnia history (3x more K8s nodes, 3-4x more daily traffic, 2x more DB traffic).

Compliance

- Led engineering efforts in SOC2 Type 1 and Type 2 certification for Insomnia by collaborating with Compliance and Security teams, planning and executing engineering team integration of user auth services, billing flow (e.g. Mailjet, Intercom) and engineering compliance practices.
- Resolved various production issues in Kubernetes clusters, including scale challenges and intermittent failures, reduced number of recurring incidents from 2-3 p/month to at most 2 every 6 months.
- Migrated to Playwright from legacy testing framework, with much higher test coverage and saving up to 2 to 3h of manual repetitive/scripted testing efforts per PR and major release.

Data Engineering

- Led the implementation of business analytics dashboards with HEX, Segment, Fivetran, Snowflake, and DBT in addition to stability monitoring dashboards, custom alerts for app and infrastructure issues, and created incident checklists and guides.

Stack: Go, Redis, PostgreSQL, Kubernetes, Helm, Terraform, Grafana, Prometheus, Google Cloud, Electron, Typescript, NodeJS, Playwright, GH Actions, DBT, Snowflake

DIGIT GAME STUDIOS - SCOPELY

Remote | 09/2020 – 10/2021

Senior Software Engineer Quality, Star Trek Fleet Command (PC and Mobile game)

Infrastructure + Reliability

- Created a new load testing setup with capacity to 10k+ concurrent players (up from 1k+ previously) by architecting and implementing distributed load generation tooling with K6.io, Docker, and AWS Fargate.
- Enabled successful release of server merge feature and other large system level game features through development of a multi-system test scenario tool, which encompassed infrastructure configuration, deployment actions, data preparation, and seamless integration with existing testing solutions.
- Reduced down-time of development gaming servers from 75% to 5% by architecting + developing + implementing the automated testing platform with Python, Docker, AWS Fargate, and K6.io, which served over 30 engineers..
- Built no-code configurable infrastructure deployment platform used by non-technical testers and game producers to easily configure infrastructure, run game-world setup, deployment management, and deployment verification through contributions and maintenance of internal custom tools.

Stack: Python, Redis, Docker, Terraform, Gitlab CI, k6.io, DynamoDB, AWS Fargate, Unity

ADIDAS

Zaragoza, Spain | 07/2018 – 08/2020

Lead Software Engineer Quality, adidas Mobile App and APIs and Hype 2.0 project

- Led a team of 12+ testers who supported multiple feature teams of the Adidas Mobile app + backend.
- Conducted regular one-on-one meetings, facilitated conflict resolution, encouraged knowledge sharing, conducted evaluations, and actively participated in the hiring process. Hired 6 people to the team.
- Improved system reliability to handle 100k+ concurrent users through functional and load testing efforts using K6.io and Kubernetes for Adidas's multi-system project "Hype 2.0".
- Capture and flag >90% of malicious bot users on Adidas Mobile App through the development of systems built on Cloudflare, Node.js, Redis, PostgreSQL
- Provided on-call support for 20+ exclusive shoe drops worth at times +7 figures USD in revenue.

Stack: Typescript, Redis, PostgreSQL, Kubernetes, Docker, K6.io, AWS

PADDYPOWER BETFAIR

Test Automation Engineer, Sports feeds

Automation in testing for topologies and APIs, creation of CI/CD pipelines

Stack: Scala, Apache Kafka, Apache Storm, Apache Cassandra, Jenkins

Porto, Portugal | 06/2017 – 06/2018

EDUCATION

SCHOOL OF ENGINEERING, POLYTECHNIC OF PORTO

B.S. in in Computing Engineering and Medical Instrumentation

Porto, Portugal | CLASS OF 2011