

# MORGAN SZIRAKI

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I am an experienced SRE, Technical Team Lead, and cloud-based solution developer within the SmartHome IoT technology space, telecoms, and gaming industries.

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## PROFESSIONAL EXPERIENCE

### Key Roles

- **2024 - Present:** Zilch Technology – Senior Platform Engineer  
Responsible for ensuring AWS services are optimized and running.
- **2023 - 2024:** DevOps Engineer  
Focused on automation of game asset delivery, package distribution, and build tooling.
- **2019 - 2022:** Tech Lead for SRE/DevOps, IoT Cloud Engineering Team  
Provided technical direction and SME support for Hive platforms deployed in production and staging.
- **2018 - 2019:** SRE and DevOps Engineer  
Developed systems to monitor platform performance, ensure uptime, automate rollouts, and monitor costs.
- **2017 - 2018:** Platform Software Developer  
Designed and implemented components for various service platforms.
- **2015 - 2017:** Deployment Engineer  
Developed components for a Ruby-based configuration and orchestration system.
- **2000 - 2015:** Senior Consultant  
Specialized in telephony switch provisioning, mediation systems, and interconnect billing.
- **1995 - 2000:** Web Developer  
Focused on integrating legacy systems with websites to create dynamic,

online applications.

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## TECHNICAL SKILLS

- DevOps / SRE Technical Team Lead
  - Kubernetes, GitOps, K3s, Docker, Docker-Compose, Docker-Swarm, Vagrant
  - Portainer, K9s
  - Linux, unix Administration, networking since 1996, Kali and security tools
  - Ruby, Rails, Sinatra, Kotlin, Java, Python, Perl, C, Shell, Expect
  - SQL, NoSQL, MySQL, Postgres, ElasticSearch, DynamoDB, Redis, AuroraDb
  - Jira, PagerDuty
  - AWS: Cloudformation, VPC, EC2, Autoscaling Groups, Subnets, API Gateway, CloudWatch, Event Bridge
  - Agile, Scrum, Kanban
  - Kafka, RabbitMQ, MQTT, Mosquitto
  - IaC: Puppet, Chef, Ansible, Terraform
  - Monitoring: Wavefront, CloudWatch, Grafana, Kibana
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## WORK HISTORY

**Zilch Technology, London UK (08.2024 - present)**

**Senior Platform Engineer**

- Maintain AWS infrastructure
- managed services via Kubernetes
- last line of support to ensure critical financial services are always up and running
- Terraform development to manage AWS Infrastructure
- linux development and administration

**Supermassive Games, Guildford, UK (03.2023 – 04.2024)**

**DevOps, LiveOps**

- Transitioned traditional AAA game development to cloud-based LiveOps.

- Designed and implemented CDN mirroring on Fastly's Edge to enhance performance and reduce costs.
  - Created infrastructure for containerized game servers using K8s and Thudernetes.
  - Automated asset mirroring, package distribution, and other processes.
  - Linux administration
  - EC2 linux instance configuration via GitOps
  - Kubernetes configuration management vi GitOps and Flux
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## **Centrica Hive, London, UK (07.2015 – 05.2022)**

### **SRE Technical Lead, DevOps**

- Developed Ruby-based deployment and orchestration systems for AWS.
  - Implemented Kafka messaging architecture.
  - Built cost-monitoring tools and enhanced platform security.
  - Created Docker images for integration testing.
  - Ansible and Puppet based IaC
  - Created build pipelines using github actions, Teamcity, AWS tooling
  - Linux administration and kernel mods to support Java devs
  - Observability using Kibana with Elastic Search, some Lua development
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## **Cartesian, London, UK (05.2000 – 06.2015)**

### **Senior Consultant**

#### **Highlights:**

- Automated infrastructure provisioning with AWS and custom Ruby/Python scripts.
- Designed modular OO Perl frameworks for billing assurance.
- Delivered mediation system migrations and training across various clients.
- Managed linux systems for optimised performance

#### **Client Engagements:**

- **The Cloud:** Developed internal, virtualized infrastructure using Chef and Ruby.

- **SKY (UK/Ireland):** Automated call generation using BluGem and Perl.
- **Virgin Media, ntl, Telewest:** Developed telephony switch data extraction software using Perl::Expect.
- **\*\*Base Telecom (Brussels) :** reverse engineered CRM using plsql
- **\*\*Vodafone Ireland :** in situ replacement of Mediation systems
- **\*\*IBM Hursley Park :** SME for mediation system switch for O2
- Linux administration and product deployment using Chef, Puppet and Ansible

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## EDUCATION

**University of California San Diego**

*1984–1990*

**Degree:** Microbiology & Biochemistry (Emphasis on bioinformatics)

**Minor:** Music

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## INTERESTS

- Rugby enthusiast and former Southwark Tigers RFC coach.
- Passionate about open-source software and SmartHome integration projects.
- Enthusiastic cook and reader of books such as *Catch-22*, *Snowcrash*, and *Cryptonomicon*.

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## REFERENCES

Available upon request.