

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, finance, gaming and medical industries. My recent engagement with Scalpel AI - <https://scalpel.ai> has provided a need to research, explore and experiment with technologies in the AI, ML, and LLM space that are immediately applicable to the Scalpel tech stack; understanding the abilities and limitations of “AI” has proved very valuable.

PROFESSIONAL EXPERIENCE

Key Roles

- **2025 - 2026:** Scalpel Ltd – Senior DevOps Engineer
Providing tooling, AWS expertise and Cloud domain expertise designing hybrid ML model training.
- **2024 - 2025:** Zilch Technology – Senior Platform Engineer
Responsible for ensuring AWS services are optimized and running.
- **2023 - 2024:** DevOps Engineer Supermassive Games 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, Neo4J (Graph DB)
 - 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, DataDog
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WORK HISTORY

Scalpel Limited, London UK (06.2025 - present)

Senior DevOps Engineer

- Research and evaluate recent AI technologies to improve model training and performance
- Creation and provision of specialised LLM development environments
- Design and automate AWS infrastructure provisioning
- development of bespoke linux distro
- designing and integrating Terraform IaC Management + GitOps
- providing cloud domain expertise to improve ML model training
- linux administration

Zilch Technology, London UK (08.2024 - 03.2025)

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
- support for maintaining External promotion asset distribution

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
- Created Unreal MacOS buid tooling

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 Wavefront, Cloudwatch, Kibana with Elastic Search (+ Lua development)

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

EDUCATION

University of California San Diego

1984-1990

Degree: Microbiology & Biochemistry (Emphasis on bioinformatics)

Minor: Music

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.