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.

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 evalute recent AI techmologies 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 Infrastracture
- 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 Thundernetes.

- 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 Elasitic 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

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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.*

REFERENCES

Available upon request.