



Kai Hendry, Curriculum vitae

Infrastructure Delivery specialist with more than 25 years of experience. Keen on the managed compute trend of the Cloud, to drive operational efficiency, simplicity and continuous software value delivery.

Infrastructure Lead at Thoughtworks

December 2020 - Present | UK

- Leading and mentoring high-performing engineering teams, fostering a culture of reliability and innovation
- Partnering with AWS services to secure record funding for client projects and ensuring best practices
- Reduced operational overhead and improved efficiency & time to market through strategic adoption of managed services
- Grow the Infrastructure discipline, inside the company and out, contributing learning materials and videos

Tech Stack: AWS, GCP, Go, Kubernetes, Javascript, Serverless, Terraform, Github, Gitlab

AWS Cloud practice lead, 'Teamwork/Corexpert' consultancy

February 2020 - November 2020 | Singapore

- Enhanced operational resilience by designing and implementing robust cloud-based backup and disaster recovery solutions for clients.
- Achieved significant cost optimisation on cloud bills from GCP/AWS to save clients money.
- Pre-sales on large complex cloud migrations for Digital transformation

Tech Stack: AWS, GCP, Cloud, Backup, Disaster Recovery Planning (DRP)

Senior Engineer in Digital Science Platform in ‘Gojek’

October 2009 – January 2020 | Singapore

- Developed a process to label new instances to produce costing reports via parameterised Jupyter Notebooks
- Improved system visibility and proactive issue detection by instrumenting, exporting, and producing dashboards/alerts using Jsonnet, Grafana, Prometheus, and Go.

Tech Stack: Machine Learning (AI), Prometheus, Grafana, Go

Devops lead at Property Management startup ‘Unee-T’

March 2018 - October 2019 | Singapore

- Engineered and automated a CI/CD pipeline for deploying Docker containers on AWS ECS, enhancing deployment reliability and frequency.
- Developed serverless microservices in Golang, focusing on robust integration and operational stability.

Tech Stack: AWS, Go, Docker

Senior devops at Video streaming company ‘Spuul’

June 2016 - March 2018 | Singapore

- Ensured high availability and scalability by administrating a complex multi-region, fault-tolerant service on AWS.
- Developed operational tooling using AWS SDK Golang V2 to automate the rollout of ~150 channels on AWS Elemental media services, improving efficiency and consistency.

- Authored a Golang-based static site and playlist generator to optimize video delivery over AWS CDN, enhancing performance and feature set
- Wrote Vue.JS / AWS JS SDK serverless app to ingest video with metadata

Tech Stack: ffmpeg, AWS, Go, HTML, Javascript (JS)

Managing Director of ‘Webconverger’, the Browser Linux distribution

February 2012 - March 2016 | London/Singapore

- Designed, developed, and maintained a leading open-source Web kiosk distribution, ensuring system reliability and security.
- Implemented a configuration and device management service, enabling scalable deployments.
- Maintained system uptime across ~5000 machines through consistent patching and robust operational processes, demonstrating expertise in managing systems at scale.

Tech Stack: Linux, shell, git

Compliance Process Manager at Telecoms Joint venture ‘WAC’

July 2010 - February 2012 | London

- Editor of compliance tests for product delivery from Widget Runtime (WRT) vendors to Joint Venture members
- Lead development on security tools: widget signing and validation tools
- Designed test result reporting system for members and vendors to track their compliance progress
- Presented and represented the company at the Mobile World Congress stand
- integration points between frontend and backend

Tech Stack: Web browsers, mobile

Senior developer at Japanese mobile company 'Aplix'

August 2007 - July 2010 | Guildford, Surrey

- Developing and testing the WebVM browser plugin for exposing device APIs securely on mobile devices
- Active in OMTP BONDI, W3C DAP and W3C widgets working groups
- QA for the SDK, an Eclipse based IDE for BONDI widgets and an emulator runtime
- System administrator for our source control, Bug Tracking System (BTS) and services

Tech Stack: Javascript, PHP, Make, C, Shell, Standards processes

Skills

- Certifications: [AWS Certified Professional](#)
- Cloud Platforms: AWS, GCP
- Infrastructure & Automation: Kubernetes, Docker, Terraform, CI/CD, Infrastructure as Code (IaC)
- Programming Languages: Go, Shell, Javascript
- Observability & Monitoring: Prometheus, Grafana
- System Reliability: Operational Tooling, Scalability, Fault Tolerance, Disaster Recovery
- Distributed Computing: Web (REST), Event-driven design
- Data stores: S3, DynamoDB, SQL
- Tools: vim, git, Make
- Servers: Debian/Ubuntu/AWS or any Unix/Linux system
- Domains: Entertainment, Self service, Real Estate, Telecommunications, Finance
- Methodologies: Agile / continuous integration

Education

- Graduated from the University of Helsinki Computer Science Masters program at the Faculty of Science in 2005 with minors in Management, Mathematics, Statistics, German and the Finnish language

Presentations

- <https://www.youtube.com/user/kaihendry>
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