



Kai Hendry, Curriculum vitae

Devops leader with more than 20 years of experience, culminating in delivering performant Web applications on the Cloud. Keen on the managed compute trend, aka “Serverless”, to drive operational efficiency, simplicity and software value delivery.

Infrastructure Lead at Thoughtworks

December 2020 - Present | UK

- Led and mentored high performing teams
- Accelerated delivery implementing DevOps processes
- Reduced operational overhead with managed services

Tech Stack: AWS, Go, Javascript, Serverless, Terraform, Gitlab

AWS Cloud practice lead, ‘Teamwork/Corexpert’ consultancy

February 2020 - November 2020 | Singapore

- Operational resilience - designing and implementing Cloud based backup and disaster recovery for clients
- 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, 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
- Instrumented, exported and produced dashboards/alerts in the Jsonnet data templating language for Grafana with Prometheus and Go language

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

Devops lead at Property Management startup 'Unee-T'

March 2018 - October 2019 | Singapore

- Built a Continuous Integration (CI/CD) pipeline to deploy Docker containers with Travis CI on AWS ECS via Github
- Built serverless microservices with Golang, documented in Postman to smooth over integration points between frontend and backend

Tech Stack: AWS, Go, Docker

Senior devops at Video streaming company 'Spuul'

June 2016 - March 2018 | Singapore

- Administrated a complex multi-region fault tolerant and scalable service on AWS infrastructure
- Created internal tools leveraging AWS SDK Golang V2 to roll out of ~150 channels on AWS Elemental media{live,package}
- Wrote the {static site, playlist} generator in Golang to deliver video over the AWS CDN faster and with more rendition features
- 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 maintains the leading open source Web kiosk & signage distribution based on our own innovative gitfs technology
- Implemented subscription and one off billing with Stripe and a powerful configuration / device management service for Webconverger deployments
- Consistently patch the system for upto 5000 machines without down time

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 OMTB 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](#)
- Programming Languages: Go, Shell, Javascript
- 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>
 - <https://www.engineers.sg/presenter/kaihendry>
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