



# Sampsa Laapotti

## Curriculum Vitae

### Experience

2018 – **DevOps/SRE Engineer**, KAIKU HEALTH OY, Helsinki.

Present My work consists of keeping our services running, migrating our legacy services to Kubernetes and monitoring them. I did my thesis to Kaiku about our deployment systems.

- Administration of Linux servers with Ansible
- Migrating product from VMs to Kubernetes
- Kubernetes and Google Cloud Platform development
- Ruby on Rails development
- Configuration of CI-pipeline
- Logging and monitoring configuration (ELK)

2015 – 2018 **Software Engineer**, GOFORE OY, Helsinki.

My work at Gofore was developing web applications for our customers as a part of an agile team. My focus was working with microservices in the backend and keeping the AWS servers running with Ansible. I worked at Gofore 3 days a week and studied with the remaining time.

- Microservices and Continuous Integration (Jenkins)
- Django and Mezzanine CMS
- SAML and Shibboleth authentication
- Node.js, Express and AngularJS
- AWS, Ansible and Infrastructure as Code

2013 – 2015 **Junior Consultant**, SYMFONI FINLAND, Helsinki.

My work at Symfoni consisted of different consulting assignments regarding IT Service management customers using Service Now environments. I worked at Symfoni for 2 days a week during school terms and full time on summers.

- Backend and Frontend Javascript development with ServiceNow tools
- Different Integrations:
  - Ticket integrations ( Incidents and Problem management )
  - Password reset with MID-server querying Customer AD
  - CMDB Integrations

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## Education

- 2017–2020 **Master of Science in Computer, Communication and Information Sciences**, AALTO UNIVERSITY, Espoo.
- 2011–2017 **Bachelor of Science in Computer Science**, AALTO UNIVERSITY, Espoo.
- 2009–2010 **Bachelor Studies in Computer Science**, UNIVERSITY OF TURKU, Turku.

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## Masters thesis

- Title *A Case Study Measuring Changes in Deployment between Virtual Machines and Orchestrated Containers*
- Supervisor Professor Hyvönen, Eero
- Advisor DI Lääkkölä, Riku
- Description In my masters thesis I researched how a transition from legacy Ansible managed virtual machines to Google cloud based Kubernetes solution affects the software deployment performance of Kaiku Health. This was done by instrumenting the deployment processes in both systems and comparing data with statistical tests. Results were inconclusive in the scope of the thesis. After the thesis I have continued to research this and results after the thesis are conclusive that migration has improved at least some parts of the software deployment performance.
- Grade 4

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## Programming and DevOps skills

- Cloud Platforms Amazon Web Services, Google Cloud Platform, UpCloud
- Programming Languages Python, Ruby, Bash, Javascript, Java, C++
- DevOps Tools Ansible, Terraform, Docker, Kubernetes, CircleCI, Jenkins, GitlabCI, Github Actions
- Databases PostgreSQL, Redis
- Logging and Monitoring Elasticsearch, Logstash, Grafana, Filebeat, InfluxDB, rsyslog
- Computer Networking DNS, TCP/IP, Cloud Networking (VPCs, CloudNAT and VPNs), CJDNS mesh
- Web Frameworks Django, Ruby on Rails, HTML5
- Authentication SAML, Shibboleth, OAuth, JWT
- Other Git,  $\text{\LaTeX}$ , REST-APIs, Linux server administration, Nginx, Microservice architecture, SQL, Tmux, Emacs, cURL, Qubes OS

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## Club and Voluntary activities

- 2012-14 TIETOKILTA, Master of Internal activities (2012), Master of External affairs (2013), Chairman of the Board (2014)
- 2012-14 AALTO UNIVERSITY, Tutor for the Freshmen  
*Otakallio 1b 20 – 02150 Espoo*

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## Interests

- Internet, Open Source and Linux, Electronics, Amateur Radio operations (Callsign OH2EGW), Books, Science and Rationality, Photography, 3d Printing, Infosec, Game theory, Math, Statistics, Non-linear dynamics, Space and Astronomy, Science Fiction