

# Jimmy Pettersson

SOFTWARE ENGINEER · DATA SCIENTIST

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## Summary

Engineer currently working as Head of Engineering at oxide.ai. Over 11 years of experience in software development and systems architecture, specializing in enterprise back-end systems, machine learning and data analytics.

## Education

### Lund University, Faculty of Engineering

Lund, Sweden

MASTER OF SCIENCE IN ENGINEERING, ENGINEERING MATHEMATICS

2006 - 2011

- Masters thesis: Contextual text classification for parametric mappings in a distributed search engine

## Work Experience

### Oxide

Malmö, Sweden

HEAD OF ENGINEERING

Apr. 2020 - present

- Implemented a large scale data acquisition framework using a server/client architecture (Go, Docker, Apache Airflow, AWS/RDS, AWS/EC2, AWS/Fargate, Grafana) for heterogeneous source data including data de-duplication and process orchestration.
- Developed a pipeline to filter, fetch, classify and transform petabytes of crawldata (commoncrawl.org) to back an AI powered search engine (Go, NodeJS, Python, Postgres, Docker).
- Developed a secure, publicly available API (Go, AWS/API Gateway, AWS/Lambda, AWS/S3) for external clients.
- Helped develop and deploy a system for automated risk analysis (Python, Docker) in the financial sector in a joint project.
- Set up best practices around CI/CD, code standards, internal tooling and integrations with third party tools.

### eBay

Malmö, Sweden

SOFTWARE ENGINEER

May. 2016 - Apr. 2020

- Developed and deployed vector space models (Go, Docker, Docker Swarm, Redis) for identifying products in vast search spaces to enable deduplication and matching of listings.
- Implemented and deployed several API microservices (Go, HTTP/gRPC, Docker, Kubernetes) to expose internal ML models.
- Set up centralized monitoring/alerting and logging for internal APIs (Grafana, Prometheus, Slack API integration).
- Implemented CI/CD pipeline (GitHub Enterprise, Go, shell script) for training, testing and deploying ML models.

### Expertmaker AB

Malmö, Sweden

SOFTWARE ENGINEER / DATA SCIENTIST

Apr. 2011 - May. 2016

- Developed and deployed secure public REST APIs (AWS, Go, Python, Redis) for a coupon recommender system with high availability and auto-scaling.
- Developed ML algorithms for a personalized coupon recommender service (Python, statistical models, genetic algorithms).
- Set up provisioning of bare metal servers and virtual machines (Ansible).
- Developed ML algorithms (Python, statistical modeling) for a personalized news feed system.
- Implemented various internal tools for profiling HTTP APIs, doing data analytics, automatic PDF report generation, real time monitoring/progress of model training etc.

## Skills

<b>DevOps</b>	AWS, Docker, CI/CD, Kubernetes, Vagrant, Ansible, Prometheus, Grafana
<b>Back-end</b>	gRPC, REST, Redis, PostgreSQL, MongoDB, Nginx, NodeJS, Django, Laravel
<b>ML</b>	Statistical modeling, Genetic algorithms, Bayesian classification, Clustering algorithms, Dimensionality reduction, NLP, Neural networks
<b>Front-end</b>	Vue.js, Materialize, Bootstrap
<b>Programming</b>	Go, Python, Javascript, Shell script, PHP, Java
<b>Languages</b>	Swedish, English

## Honors & Awards

EBAY

2019 **SPOT Award**, For exceptional effort in delivering Moonshot Phase 1 - Ron Knapp (VP Structured Data)

Malmö, Sweden