

# Gonçalo Pestana

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Website: <https://gpestana.com>

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## Experience

**hashmatter**  
researcher and  
systems developer  
9/2018 – present

R&D focused on privacy preserving decentralised networks and metadata resistant systems - <https://hashmatter.com>

**NewThingsCo.**  
Sr Software Developer  
10/2017 – 9/2018

Worked as backend developer and devops, helping the biggest bank in Finland to transition their services to the cloud.  
*Technologies: Node.js, AWS, Docker Serveless, Microservices.*

**F-Secure**  
Software Engineer  
02/2016 – 10/2017

Worked as a backend software developer responsible for architecting, implementing and maintaining a production big data pipeline with highly concurrent data processing. Scaled the service from tens of MBs to GBs of data per minute, with potential for more data intake in the future. Worked on setting up and maintaining metrics, monitoring and alerting services. Developed and maintained multiple APIs and services for internal customers to access and process data.  
*Technologies: Node.js, Python, AWS, Docker, Elasticsearch, Influxdb, NoSQL, Git, Devops, DCOS, RabbitMQ, Serveless, Microservices.*

**Software  
consultant**  
Software Engineer  
08/2013 – 02/2016

**Catchbox Oy**  
Worked as a full-stack developer and developed a product customization engine interface with server-side integrations. Worked partially remote.

*Technologies: Node.js, JavaScript, JQuery, CSS, HTML.*

**Eduze**  
Worked as a full-stack developer and developed a content cache running on constrained physical devices. The product was a success in DemoAfrica 2013. Worked partially remote.  
*Technologies: Python, Flask, PostgreSQL, Javascript, HTML.*

### North Impact

Founder, full stack developer and tech advisor of early stage startups. Worked partially remote.

*Technologies: Node.js, Javascript, HTML, CSS, Zapier.*

### Fivestars

Software engineer  
co-op  
03/20015 – 09/2015

Designed, and implemented a company-wide metrics and analytics pipeline.

*Technologies: Python, InfluxDB, ELK stack (ElasticSearch, Logstash, Kibana), Grafana, statsd and Angular.js.*

### CERN

Engineer & Research  
intern  
06/20013 – 08/2014

Worked as a software engineer and researcher for the CMS collider software team. Developed test automation for data processing in microprocessors. Published and presented scientific paper at the ACAT2014 conference.

*Technologies: Python, C, ARM processors.*

## Skills

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Languages	Go, Rust, JavaScript, Python
Databases	Elasticsearch, Influxdb, MongoDB, Redis?
Infra	AWS, Docker, Jenkins, DCOS, RabbitMQ, Consul
Paradigms	Microservices, Serverless, Agile, Kanban, Remote

## Education

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### Master's of Computer Science

2017

Aalto University

Thesis title "Energy Efficiency in High Throughput Computing"

**Publications:** *Techniques and tools for measuring energy efficiency of scientific software applications*, in proceedings of 16th International workshop on Advanced Computing and Analysis Techniques in physics research (ACAT 2014)

### Bachelor's of Network Communication engineering

2012

Técnico Lisboa