

Christian Joergensen

Go, Python Systems Development and Operations Specialist



Professional experience

2009-2018: **Co-founder / CTO:** Ubivox Technologies ApS

In preparations to launch eBrev (see eBrev ApS) internationally, we rewrote it using modern technologies and architectures and started scaling and automating the infrastructure (to about 80 VMs). Also worked the postmaster role, reaching out to mailbox operators to debug congestion, compliance or blocking issues using special routing or configurations at our end.

I am the technical lead, responsible for all backend development and infrastructure operations.

All of the infrastructure is automated using *salt* (for configuration) and *salt-cloud* (for provisioning). We rely on *Prometheus* for real-time monitoring and alerting using several *Grafana* dashboards for transparency into the infrastructure. Most services are configured in a distributed, highly available mode, using *HAproxy* or other means of balancing requests across healthy instances. The web interface for customers to interact with Ubivox was developed in *Django* with various backend microservices developed in Python and Go wired together using *RabbitMQ* and *gRPC*.

2003-2012: **Co-founder / CTO:** eBrev ApS

The name eBrev is Danish for *eLetter*, and was the first incarnation of our SaaS solution for newsletter management (list management, analytics, design and delivery), which we later rewrote and launched internationally as Ubivox.

2003-2009: **Co-founder / CTO:** GMTA ApS

This company was our consultancy business which we operated simultaneously with eBrev and Ubivox and was used to pay for bootstrapping our SaaS companies. I worked as developer consultant for various companies in different industries including systems for:

- Worldwide freight booking, tracking and sorting
- Magazine subscription and billing management
- Music distribution backend for recording agency
- IP telephony branch exchange for a call center

2005-2007: **Network Operations Technician:** ComX Networks A/S

Worked as part of their NOC team where I worked on-premises and on-site (and also participated in an on-call rotation) debugging network problems for customers. Spent a lot of time developing tools to automate provisioning and help debug network problems. Besides Internet access, we also provided customers with IP telephony, IPTV and e-mail, which I also took part in debugging and in parts developing.

2002-2005: **Systems Operator / Developer:** Shockwaved ApS

2001-2002: **Web Developer:** reaktor4 ApS

Technologies

Operating systems	Linux (Debian, Ubuntu), FreeBSD
Programming languages	Go, Python, JavaScript, PHP, Java, C, Perl
Web servers	Nginx, Apache, Lighttpd, Go (net/http), uWSGI
Networking	Netfilter, BGP, OSPF, Multicast, Packet Scheduling (tc), HAProxy, IP, DNS, TLS/SSL
Databases	PostgreSQL, MySQL, CockroachDB, RethinkDB, Redis, sqlite, memcached
Messaging	RabbitMQ, Redis, beanstalkd, Postfix (SMTPd)
Version control	Git, Mercurial, Subversion, CVS
Frameworks	gRPC, Protocol Buffers, Django, Flask, React
Operations / monitoring	Salt / Salt-Cloud, CFEngine, Docker, vSphere, Cloudstack, Prometheus, Grafana
Other	Asterisk (PBX), GDPR compliance, Let's Encrypt, E-mail (MIME, SMTP, deliverability)

Education

2003-2009: (Unfinished) **Bachelor of Computer Science:** University of Copenhagen

Completed and passed most of the courses required for a bachelor's degree and a couple of master's courses, including courses on: Functional programming, object oriented programming, distributed systems, data networks, databases, compiler construction and language theory, algorithms, computer architecture and assembly programming.

1999-2002: **High School:** Sorø Academy

Completed high school education (STX) at the School of Sorø Academy on a Math and Physics track.

Volunteer work:

2012-present: Working as court appointed lay judge at the City Court of Copenhagen working between 4-5 criminal cases per year.

2008-2012: Served on the board for a local branch of the students athletic association at the University of Copenhagen for american football. Was elected chairman from 2010-2012.

2008-present: Working as an official for the Danish American Football Federation. Gained international level license in 2017 as only one of eight other officials in Denmark, and has since worked several International tournaments, including the 2018 Men's European Championship in Helsinki where I was selected to work the final.

Personal data

Full name:	Christian Folmann Jørgensen
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