

# Florent CLAIRAMBAULT – CTO / VP of Engineering

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## Summary

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- Overall 14 years' experience with development, 8 years managing teams of developers.
- Comfortable communicating with company stakeholders and leading a team.
- Passionate about continuous integration, from test-driven development to automated deployments.
- Managed all stages of projects: pre-sales, architecture designs, costs, planning estimates, deliverable definition, roadmap, and day-to-day follow-up.

## Technical Skills

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Programming languages: Golang (backend servers), Python (integration, delivery, data processing, and test tools), Typescript (backend), C/C++ (mostly on GCC/Linux), and Java (backend with VertX, Spring, JPA)

Developer tools: Debugger, profilers, and memory leak detection tools.

Continuous integration & deployment: CircleCI, GitHub Actions, Gitlab CI, Docker, Kubernetes.

Databases: RDBMS: PostgreSQL, MySQL - NoSQL: Dynamo (AWS), Cassandra, Elasticsearch, Redis.

Message brokers: SNS/SQS (AWS), RabbitMQ, ZeroMQ, NSQ.

Security & Cryptography: KMS (AWS), Thales HSMs, comfortable with the core security & cryptography concepts.

Frontend: Experiences with XHTML/CSS, JS/ES2020, and React.

## Professional experience

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2018 - 2023     **habx – CTO**

- Built and led a team of 15 talented people, recruited more than half of them
- Fostered a culture of accountability (devs write specifications, push to production and handle crash and bug reports), communication and mutual respect, efficiency: writing every meeting and architecture decisions, daily production releases, feature flags, slack bots for all core release and deployment operations
- Setup robust processes and associated tools (JIRA, Confluence, Sentry, Scalyr, etc.), tech conventions (around logging, messaging, database structures) team organization
- Defined the technical roadmap associated to the product roadmap and kept track of them
- Involved in the key decisions of the company
- Lead the switch to a micro-service architecture (36 services, 10 web apps, 9 workers, and 10 argo workflows) with GraphQL APIs
- Mentored developers on subjects like databases indexes, debugging, profiling, memory leak detection
- Built & maintained a few core components

2015 - 2018     **Medici – Backend Team lead**

- Recruited and lead a team of 5 developers (3 in France, 2 in the US).
- Defined the CI/CD architecture: release branches, unit tests, integration tests, documentation generation, shared code reviews, and release generation.
- Defined a distributed and scalable architecture built on the AWS stack (Docker/ECS, Dynamo, S3, SNS/SQS, Cloudwatch, KMS, ELB), Elasticsearch (for both search and logs analysis with Kibana).
- Participated in the product definition and co-designing of the REST APIs and WebSocket protocol with the mobile lead.
- Developed core parts of the backend architecture.
- Organized the e-prescribe certification (with Dosespot), and passed HIPAA certification.

2015 **Mailjet – Core lead developer**

- Lead a team of 5 senior C++ developers (4 in Bulgaria, 1 in France) around a service used to track the progress of each email from the client transmission/generation to the end-user reading it.
- Experimented with Kafka and Cassandra as an alternative to the PostgreSQL / PGQ architecture.

2012 - 2015 **GMX/Youtransactor – Software engineer / Project manager**

- Integrated and adapted a C payment library and handled the certification around the french payment acquiring system (ISO8583-based, CB2A protocol).
- Set up the public key infrastructure for some of our payment terminals (with different HSMS)
- Introduced Jenkins and set it up for most of the software building and deployment tasks of the company.
- Project management with clients requiring contact / contactless payment and transport control capabilities.

2010 - 2012 **GEOLSemantics – Software engineer / Project manager**

- Worked on building and optimizing a C++ finite state machine engine, used for natural text analysis. In charge of the overall engine measures and on all levels optimizations, made some of the FST algorithms.
- Created a quality assurance and non-regression testing software around our different natural language processing components. It was built in java with JSF. Still used today.
- Created a knowledge visualization, edition, and exporting interface to show our analysis and allow customers to take advantage of our natural processing components. It was built in Java servlets and a lot of jQuery.
- Built a distributed NLP processing architecture around java components and RabbitMQ.

2008 - 2010 **CONIX – Software engineer**

- C# .Net (up to 3.5) on ASP.Net and Sharepoint 2007/2010 community portals.

**Studies**

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2009 **Master of Science at ECE** (<http://www.ece.fr>), Paris  
1 month at UCI (CA), and 3 months at Stafford, UK

2004 Scientific baccalaureate (A-Level)