



Nicolas Ha

Place of birth: Nantes, France

Nationality: French, British

CONTACT

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ABOUT ME

Senior Software Engineer with expert knowledge of Clojure. Comfortable with secure distributed systems in regulated environments. Built banking-grade auth/authz systems and resilient infrastructure processing millions in transactions. Experience with Clojure web services at scale.

SKILLS

JavaScript | TypeScript | Clojure | React.js | Node.js | Kubernetes | Docker

DATABASES

PostgreSQL | Redis | FoundationDB | ElasticSearch | MongoDB

MESSAGE QUEUES

Apache Pulsar | Apache Kafka | RabbitMQ

ENGINEERING

Testing (unit, integration, e2e, generative)

DEVOPS

CI/CD | AWS

WORK EXPERIENCE

Narval (GM NFT) Paris, France

Staff developer

06/2025 – 12/2025

Joined as early engineer (team of 4) when no product existed.

- Worked on custodian integrations (BitGo, Zodia) enabling institutional custodians to access DeFi (Aave staking, TON transactions)
- Implemented GNAPOAuth authn/authz with OPA policy engine
- Built transaction decoding/proxy infrastructure for transaction validation (EIP-7730)

Griffin Bank (BaaS) London, United Kingdom

Senior software engineer

04/2022 – 05/2025

Engineered critical platform components essential for banking license approval in a highly regulated financial environment.

- Implemented secure admin authorization systems
- Developed robust webhooks architecture
- Built multi-factor authentication using passkeys
- Designed resilient queuing and processing systems
- Created comprehensive audit logging
- Established reliable scheduled job infrastructure
- Implemented secure HTTP message signatures for API integrity

TurtleQueue (SaaS) London, United Kingdom

Independent Developer

2019 – 2022

Led development of TurtleQueue, a Pulsar-compatible message broker SaaS platform.

- Designed and built entire technology stack from scratch
- Gained expertise in distributed systems and cloud infrastructure
- Successfully secured R&D tax incentives
- Provided specialized freelance engineering services for MailOnline

MailOnline (Media) London, United Kingdom

Backend team lead software engineer

2016 – 2019

Advanced from Senior Engineer to Backend Team Lead managing highly experienced developers.

- Architected and optimized core publishing pipeline serving 1.3B views monthly
- Implemented ad placement that increased revenue
- Delivered real-time analytics that significantly reduced feedback cycles
- Accelerated feature delivery while maintaining system reliability at scale

Go Find It (Startup mobile apps) France

Software engineer

2015 – 2016

Built comprehensive full-stack mobile CMS for luxury hotels.

- Enabled real-time content management and live app previewing
- Managed entire pipeline from development to DevOps and App Store publishing
- Supported team of 10 mobile developers to deliver hundreds of branded hotel apps

Apizee (Startup web telecommunications) France

Software engineer

2014 – 2014

First backend engineer hire.

- Proactively developed a prototype that secured a multi-year contract with Orange
- Developed connectors bridging WebRTC web customers with legacy phone support systems
- Technology showcased at Barcelona Mobile World Congress on HP's booth

Siléane (Robotics SMB) France

Intern

2012 – 2012

Developed intuitive robotic arm controller using Microsoft Kinect.

- Enabled non-technical users to program movement paths through natural gestures
- Reduced programming time compared to traditional joint-by-joint configuration methods

Dassault Aviation (equipments division) France

Intern

2010 – 2010

Developed an automated debugging bench to stress test military avionics flight control circuit boards, enabling 24-hour testing cycles that reduced testing time by 50%.

EDUCATION AND TRAINING

2011 – 2014 Lannion, France

Master's degree in computer science ENSSAT

Student representative. Erasmus exchange in Germany, with classes taught in German.

2010 – 2011 Edinburgh, United Kingdom

Bachelor of Engineering in Electronic and Computer Engineering Edinburgh Napier University

LANGUAGE SKILLS

MOTHER TONGUE(S): French

OTHER LANGUAGE(S): English