

Jonathan Huot

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I'm a specialist in new technologies with 18 years of professional experience. I'm an engineer hands-on and prone on the ways of getting things done. I love understanding how things work and I'm always learning about new systems, technologies & in particular about details of how it works "behind the scene".

Experience

• London Stock Exchange Group

Engineering Manager

Remote, France

2023 – Present

- Managed a team of senior developers for a greenfield low-latency global Secure Token Service to provide authorization for new LSEG's platform products. 4 distributed systems inventions were patented.
- Led technical migration of LSEG products to new identity platform, including flagship Desktop Product, & guided Trading Product, Mobile, Web, Excel Addin, Teams Apps & AI Apps.
- Architected solutions for various integrations within Microsoft Entra ecosystem, including Entra App Gallery publication, support of Entra Multi-tenant OIDC & SCIM integrations & guided Teams App, Excel Add-in, PowerBI, third party & partners amongst others.

Go, Python, AWS, Datadog, Terraform, Gitlab, OpenTelemetry, Entra.

Engineering Manager

2021 – 2023

- Provided leadership to large teams of professionals for £5million+ projects to modernize the company's platform.
- Led Private Network HTTP Gateway capability to replace private line traffic from OnPrem to Cloud.
- Led CIAM Session Management capability to replace legacy WAM move to Cloud, including device detection, session limits, enforcement points...
- Drove senior developers through the software lifecycle and assist architects to convert designs into tangible deliverables, across multiple devices types including Desktop, Browser, Mobile and Backend services.

Python, AWS, Gitlab Pipelines, Terraform, Kong, Nginx, Keycloak, Infinispan, Jenkins, Ansible.

Senior Technical Specialist/Identity Architect

2018 – 2021

- Co-architect & co-design an authentication system (OAuth2.0 provider) for the company's flagship platform used by 400.000 of financial professionals worldwide.
- Developed from scratch a Secure Token Service written in Python and deployed in AWS globally across 3 regions.
- Owner and contributor to open-source projects used by a large OAuth community of developers across the world and still used in LSEG's platform in 2025. *Python, GitHub*

Python, AWS ECS, ALB, Lambda, SNS, DynamoDB, Elasticache.

Lead Software Engineer

2012 – 2018

- Built custom HTTP Web Accelerator Reverse Proxy, handling web traffic of 100M req/day for the financial flagship's platform Eikon. Routing & caching at the edge of 300 web services for a total of 1000+ of backend servers across 4 OnPrem datacenters.

Linux, C, Varnish, Nginx, Apache, Redis, NodeJS, Puppet, Groovy

- Architected and developed a custom highly-available control-plane/RESTful API written in Python for handling routing of the Reverse Proxy solution. Capabilities integrated were failover, load-balancing, feature toggling/user targeting, caching, routing & authentication.

Python, MongoDB

- Developed from the ground-up, backoffice's frontend.
- Owner and contributor to multiple Varnish open-source projects still used in LSEG's platform in 2025.
- Hackathon: Deployed & integrated 8 IoT devices with an opensource Digital signage solution across 3 offices for internal communication of Reuters employees.

Raspberry Pi, Python

- **Freelance**

Paris/Remote, France

Software Engineer at Crédit Agricole CIB

2010 – 2012

- Designed & Built a low-latency solution publish/subscribe for a trading routing system of FIX messages. Used as a middleware in a global routing system, it was designed to minimize the latency between the broker and financial exchanges across the world.

C++, Multi-process, multi-threading & low latency server, PubSub, nanoseconds optimization.

- Designed custom language with bison/flex to help operators changing routing rules based on exchanges rules & contracts. Built associated desktop client interface in Winforms C#.

bison, flex, C#, Winforms

Founder

2010 – Now

- Founded a web agency, built & deployed several web applications for smaller companies, including cultural and sports associations.

French Entrepreneurship, Linux, Drupal, PHP, MySQL, Python, MongoDB, AngularJS, Mailgun.

- **Sopra Steria**

Paris/Vélizy, France

Software Engineer at Bouygues Telecom & Adeo Services

2007 – 2010

- Developed & designed enhancements for the third french telecom company including real-time pricing application for phone calls and routing application of ASN1 tickets (phone tickets) used by 6 millions of customers.

- Audited large C and C++ codebase and wrote best-practices guide on 32 to 64 bits migration.

IBM AIX/Sun Solaris, C++, OracleDB.

Education

- **EPITECH**

Paris/Kremlin-Bicêtre, France

College of Engineering, Expert in Information Technology

2002 – 2007

- Teacher's assistant in C++ and cloned from the ground-up various UNIX projects including HTTPd, Shell.
- Technical lead of a team of 12 developers for the final-year project of a music composition open-source software, written in C++ cross-platform.

Technical Skills

Coding: Go, Python, C, C++, shell script, JavaScript...

Software: GitLab, Nginx, Varnish, Redis, MongoDB, MySQL, Docker, Keycloak, Jenkins...

Platform: Linux, Microsoft Entra, AWS, ELB, DynamoDB, Route53, Cloudfront, SNS, SQS, Lambda, PrivateLink, On-Premise F5 BigIP...

Standards and Protocols: HTTP2, OAuth2.0 RFC, OpenID Connect & rel, JWT/JWE, SCIM, TCP, DNS...

Open Source Maintainer: oauthlib, requests-oauthlib, bottle-oauthlib, varnish libvmod...

Patterns: Authentication and Authorization, High-Availability and Resiliency, Automation Testing, Scalability, Low-Latency, Caching, Security, Observability...

Languages: French (native), English (fluent).

Hobbies & Interests

Sports: Basketball's club, Indoor Football, Running.

Hobbies: Cooking, Gardening, DIYer enthusiast.