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Éric NICOLAS
Solutions Architect

Top Skills

AWS Platform ◇ Arch. Design
Git Surgery ◇ Linux Sys. Admin.
DevOps ◇ TypeScript ◇ Java
Documentation ◇ DB Admin.
Web Dev. ◇ Communication
Code Quality ◇ Organisation

Education

Engineer's Degree
in **Network Security**

Upskilled in the Java language by Rémi FORAX, major contributor to its expansion.
Awarded with the greatest distinction. Graduated top of class.

Licentiate Degree
in **Computer Science**

Awarded with the greatest distinction. Graduated top of class.

Baccalaureate
in **Applied Physics for Electronics**

Awarded with the greatest distinction. Graduated top of class; top 0.4% nationwide.

Endorsements

Christian POPESCU
Senior Software Engineer

Éric showed obvious technical skills and remarkable abstraction capacities.
I trust in his technical and human skills.

Étienne DURIS
University Professor

Éric is a hard-working person, tackling all assignments with dedication.
I highly recommend him, he is a team player and would make a great asset to any organization.

About Me

I am a strategic, detail-oriented problem solver with a keen and analytical mind, driven by a passion for innovation. My experience has taught me that a project's value lies in accurately identifying and contextualising the objectives to achieve—this is where I make the greatest impact.

In designing systems, I believe that clarity and elegance are key to lasting relevance: I am a stalwart advocate of radical simplicity and empower my collaborators to strive for creative solutions that will remain effective and adaptable.

Experience

Principal Software Engineer at Unite (remote position)
Nov. 2022 – Present (3 years, 1 month)   Leipzig, Germany

Enabling our feature teams to focus on delivering functionality in the trying context of reinventing a B2B e-procurement platform grossing 500 million euros a year.

Mentored a junior IT developer in 2023 and 2024.

Solutions Architect at NCLS Development (independent consultant)
Dec. 2014 – Present (11 years)   Brittany region, France

Designed the entirety of the services that make up an enterprise EHS solution trusted by the French national employment agency since 2016.

Software Engineer at Propellerhead
Dec. 2013 – Dec. 2014 (1 year, 1 month)   Auckland, New Zealand

Co-designed and implemented the engine responsible for parsing and semantically classifying 160+ years of heterogeneous historical data.

Project highlighted by the W3C as one of the foremost examples for their Data on the Web Best Practices publication released in 2017.

Product Owner at Gaspard Monge Institute
Sep. 2012 – Mar. 2013 (7 months)   Paris area, France

Led a team of 5 junior IT engineers implementing a proof-of-concept solution for a research project of the institute.

Software Engineer at Safran Aircraft Engines
Sep. 2010 – Sep. 2013 (3 years, 1 month)   Île-de-France, France

Interfaced with physicists to implement real-time ports of cutting-edge signal processing algorithms in the demanding context of aircraft and rocket engines.

Mentored a junior IT engineer from 2011 to 2013.

Apprentice Product Owner at Site Alpha, Planon group
Sep. 2008 – Sep. 2010 (2 years, 1 month)   Paris area, France

Handpicked by our CEO to elaborate with him specification documents for the company's new flagship product.

Timeline (left side milestones)

- Inaugurate my tech blog
- First principal engineer role
- Migrate to Neovim
- Begin using Rust for personal projects
- Switch to Arch Linux
- Migrate Cloud resources to ARM architecture
- Mastery of Git
- Excellent AWS proficiency
- Join Unite
- Mastery of RxJs
- Mastery of TypeScript
- Mastery of D3.js
- Migrate services to IPv6
- Begin contributing to the TC39
- Mastery of AngularJS
- Begin independent consultancy
- Graduation of my apprentice
- Excellent JavaScript proficiency
- Switch to Ubuntu
- Join Propellerhead
- Excellent Java proficiency
- First lead developer role
- First mentor role
- Skilled C++ proficiency
- Join Safran Aircraft Engines
- Begin using Debian

2024

Steered project back on track to meet crucial deadline

I led the initiative to revise the design of a project gone off-course and coordinated the efforts to deliver on time a future-proof solution that would address the imminent amendments to the Visa compliance mandate.

corrected course of project of **6 months'** lead time ⋄ with under **3 weeks** before pivotal cutoff date

2023

Spearheaded redesign of dysfunctional payment workflow

I drove the complete overhaul of the procedure and architecture of the credit card payment system at a major B2B e-procurement platform, and provided a working implementation that purged accidental complexity and addressed discovered vulnerabilities.

reduced code base by about **96%** ⋄ for a platform handling annually **billions of euros** in transactions

2020

Resolved performance bottleneck in data computation engine

I proposed to better leverage a customer's database engine and pair intricate SQL queries with savvy and straightforward API design to break the impasse of a solution having far outgrown its original scope.

from about 15 seconds down to **80 milliseconds** ⋄ entirely eliminated the **reliance on caching**

2016

Awarded public tender through innovation partnership

I designed a bespoke EHS solution lauded by a digital incubator of the French government and was funded for its implementation and continuous development.

used by over **9,000** government employees ⋄ ongoing partnership of nearly **9 years**

2014

Built data contextualisation protocol for the Semantic Web

I jointly designed as well as implemented the procedure and supporting system by which Auckland Museum's collections curator could map out the semantic attributes of their Linked Open Data platform's ever-growing digital archive.

implemented for the **Web 3.0** over a decade ago ⋄ highlighted by **the W3C**

2012

Identified and addressed costly, recurring resource waste

I noticed an opportunity for, designed, built and drove the promotion of a workflow optimisation for technicians at a world-leading aircraft engines manufacturer to substantially reduce the strenuous cost of late-stage testing of our propulsion systems.

over **1,000,000 euros** saved each year ⋄ improved longstanding procedure in the **defence industry**

TECH STACK

WEB	Webpack ⋄ RxJs ⋄ Angular ⋄ Svelte ⋄ Vite ⋄ Lit ⋄ Tailwind ⋄ GraphQL ⋄ React
DATABASE	PostgreSQL ⋄ jOOQ ⋄ DynamoDB ⋄ Liquibase ⋄ RDS ⋄ OracleDB ⋄ SQLite
CODE	Neovim ⋄ TypeScript ⋄ Java ⋄ JavaScript ⋄ Git ⋄ Lua ⋄ ReactiveX ⋄ Bash ⋄ C++
TOOLS	tmux ⋄ Git ⋄ GNU coreutils ⋄ ripgrep ⋄ fd ⋄ Zsh ⋄ AWK ⋄ jq ⋄ fzf ⋄ ast-grep ⋄ p10k
CLOUD	AWS ⋄ Google Cloud Platform ⋄ GitHub Actions ⋄ Kubernetes ⋄ Terraform

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