



# ÉRIC NICOLAS

## SOLUTIONS ARCHITECT



## 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.

## 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's Degree

in **Computer Science**

Awarded with the greatest distinction. Graduated top of class.

### Bachelor's Degree

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.

## EXPERIENCE

### Principal Software Engineer at Unite (remote position)

Nov. 2022 – Present (2 years, 8 months)

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 (10 years, 7 months)

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.

### Project Manager 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.

First principal engineer role

Migrate to Neovim ↗Begin using Rust ↗  
for personal projectsSwitch to Arch Linux ↗Migrate Cloud resources  
to ARM architecture ↗

Mastery of Git

Excellent AWS ↗ proficiencyJoin 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 ◇ with under **3 weeks**  
of **6 months'** lead time ◇ 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 ◇ for a platform handling annually  
by about **96%** ◇ **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 ◇ entirely eliminated  
down to **80 milliseconds** ◇ 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** ◇ ongoing partnership  
government employees ◇ 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** ◇ highlighted  
over a decade ago ◇ 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** ◇ improved longstanding procedure  
saved each year ◇ in the **defence industry**

