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# 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, 7 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](#) (freelance entrepreneur)

Dec. 2014 – Present (10 years, 6 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 freelance activity

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 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**

