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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'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.

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 (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 ↗ (independent consultant)
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.

Timeline (left side)

- First principal engineer role
- Migrate to Neovim ↗

2024

- Begin using Rust ↗ for personal projects
- Switch to Arch Linux ↗
- Migrate Cloud resources to ARM architecture ↗

2023

- Mastery of Git
- Excellent AWS ↗ proficiency
- Join Unite ↗
- Mastery of RxJs ↗

2020

- Mastery of TypeScript
- Mastery of D3.js ↗
- Migrate services to IPv6 ↗
- Begin contributing to the TC39 ↗

2016

- Mastery of AngularJS
- Begin freelance activity
- Graduation of my apprentice ↗
- Excellent JavaScript proficiency

2014

- Switch to Ubuntu ↗
- Join Propellerhead ↗
- Excellent Java proficiency
- First lead developer role

2012

- 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 ◇ Visual Studio Code ◇ JavaScript ◇ Git ◇ Lua ◇ C++

TOOLS tmux ◇ Git ◇ Linux ◇ ripgrep ◇ fd ◇ Zsh ◇ AWK ◇ jq ◇ fzf ◇ ast-grep ◇ p10k

CLOUD AWS ◇ Google Cloud Platform ◇ GitHub Actions ◇ Kubernetes ◇ Terraform

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