Gautier Di Folco

Brignais, France

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Senior Software Engineer

Results-focused, detail-oriented, and highly competent professional with repeated success delivering complex and innovative features while improving overall functionality of existing systems.

AREAS OF EXPERTISE

- Pragmatic and resourceful problem-solving abilities coupled with keen aptitude for managing technical challenges involving large sets of data and distributed systems.

- Demonstrated capacity to take ownership of workload with a penchant for working collaboratively, even from a remote environment.

- Experience building high scaled distributed systems and in-depth knowledge of distributed algorithms, consensus algorithms, quorum protocols, clocks, and replication.

- Solid track record of leading delivery of cutting-edge projects that advance business priorities while maintaining alignment with industry standards.

- Interpersonal skills for building solid relations with project stakeholders and exceeding service level agreements.

TECHNICAL PROFICIENCIES

Platforms:	NixOS; FreeBSD; OpenBSD; BSDA; Debian; AWS
Languages:	Haskell; Nix; Scala; Ruby; C/C++; Erlang; Prolog; go; Bash
Tools:	Software Craftsmanship; Test-Driven Development; Domain Driven Design; Property-Based Test; NeoViM; Git; PostgreSQL; PL/pgSQL; AWS; Terraform; Nix; Bazel

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Professional Experience

Autogriff, Lyon, France / Remote

Principal Software Engineer / Senior Haskell Developer (2023 - Present)

Supports various business units (car repair shops partnerships management, customer managements, user-declared vehicles life-cycle management) delivering tools to various stakeholders (customers, business experts, partners, C-levels). Gathers the functional requirement from the stakeholders and user feedback to define priorities and architectural evolutions during products' life. Mentors product team's member in order to create a secured, performant, and maintainable product to meet business needs.

Key Achievements:

- Created and grown two products from scratch (Haskell/Elm)

- Decrease business critical workflows lead time by 40-90%
- Reworking build system (45% build time reduction)
- Setup Continuous Integration and Deployment pipelines (80% regressions reduction, 90% deployment time reduction)
- Structuring teamwork with DDD and EventStorming to be aligned with the business

Context:

- Startup in the vehicles fleet management (damages)
- Technology stack: Haskell, Nix/NixOS, Terraform, AWS, PostGreSQL, Elm, Java/Python/C# (Legacy)

Hetchr, Lyon, France / Remote

Lead Software Development Engineer (2020 – 2023) / **CTO** (2021 – 2023)

Builds and leads a product team inside a high potential distributed startup. Gathers the functional requirement from the stakeholders and user feedback to define priorities and architectural evolutions during product's life. Mentors product team's member in order to create a secured, performant, and maintainable product to meet business needs.

Key Achievements:

- Created and grown a product from scratch
- Built up a complete team and introduced a continuous improvement culture
- Successfully delivered value at the right time according to business needs
- Setup and maintained the product architecture and infrastructure
- Arbitrated the main products decisions according to the business point of view and the user feedbacks

Context:

- Startup in the Technology & Telecommunication industry
- Technology stack: Haskell, Kubernetes, Terraform, AWS, ElasticSearch, PostGreSQL, Nix/NixOS

Linagora, Lyon, France / Remote

Tech Lead/R&D Software Development Engineer (2018 – 2020)

Provides comprehensive leadership to the execution, management, and handover of security-critical projects for a diverse portfolio of clients. Guides developers in best coding practices to ensure standardized methodologies. Oversees development of testing standards and infrastructure. Facilitates testing procedures and corrects bugs to deliver optimal solution.

Key Achievements:

- Routinely completed requirements on-time, within budget, and according to quality standards.
- Commended by senior leadership that continually met and exceeded service level agreements.

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- Proved highly efficient in leading efforts to define requirements, develop delivery schedules, and select technologies.
- Hired as Development Engineer and assumed additional responsibilities as Tech Lead in just one-year of employment.
- Invited to speak at two international conferences.
- Succeeded in improving Apache James efficiency by five.
- Oversaw timely delivery of a distributed version serving five thousand users.

Context:

- Consulting company in the Technology & Telecommunication industry (FOSS market)
- Technology stack: Java, Scala, Kubernetes, Terraform, ElasticSearch, Cassandra

Gemalto SA, La Ciotat, France

R&D Software Development Engineer (2014 – 2017)

Played an integral role on a delivery team responsible for development of an operating system for SIM cards. Maintained open lines of communication with project stakeholders to ensure the highest levels of customer satisfaction.

Key Achievements:

- Led implementation of initiatives that reduced main product regressions by 80%.
- Delivered security critical codes to more than 10M SIM cards.
- Entrusted to manage delivery of critical features to three main world telecommunication firms.

Context:

- Secure elements manufacturer in the Telecommunication industry
- Technology stack: Embeded C, JavaCard, Java

Cod'INSA, Villeubanne, France

Key Software Development Engineer (2013 – 2014)

Served as system administrator of a student programming contest website and infrastructure whilst holding concurrent responsibility for analyzing existing systems and implementing required to changes to optimize functionality of their website.

Key Achievement:

- Spearheaded change management initiatives that improved system reliability and performance.

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ADDITIONAL EXPERIENCE:

- **R&D Software Development Engineer,** Stormshield
- **(Internship) R&D Software Development Engineer,** Alstom
- **Occasional Haskell Teacher,** Epitech (2017 - 2021)
- **(Internship) Software Development Engineer,** Citi/Inria
- **(Internship) Software Development Engineer,** LPS Lyon

Education and Training

2014 - Master of Science in Engineering, INSA de Lyon, Villeurbanne, France

2014 - Research Degree in Computer Science, Université Lyon, Villeurbanne, France

2011 - Technical Degree in Computer Science, Institution des Chartreux, Lyon, France

2009 - BAC Scientifique, Lycée René Descartes, Saint-Genis-Laval, France

— Certifications —

2023 – IOHK's Plutus Pioneer Program fourth cohort ~ 2023 – SOC 2 Analyst CyberUniversity/Université Paris 1 Panthéon-Sorbonne ~ 2021 - Well-Typed's Type-level programming with GHC ~ 2021 – IOHK's Plutus Pioneer Program first cohort ~ 2019 - LFS158X: Introduction to Kubernetes

2019 - Programming with Google Go ~ 2013 - BSD Associate: BSDA (expired)

2019 - Functional Programming in Scala Specialization ~ 2014 - Well-Typed's Guide to the Haskell Type System

— Professional Affiliations —

Organizing Committee of Software Craters Lyon (meetups and all-day events), Hackage contributor (13 published packages), regular FOSS contributor (60+ contributions over 50+ projects since 2020)

— Language Proficiency —

French ~ English ~ Italian