



MAFAL GAI

AI-Augmented .NET Developer



mafalgai.com

.NET developer since 2019, after 13 years in the semiconductor industry. GitHub Copilot daily on assignments, Claude Code on personal projects: I increasingly work as an orchestrator of AI-generated code. I am broadening my profile towards DevOps through an Expert DevOps program (RNCP level 7) in progress.

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7 yrs

in software development

13 yrs

at ST Microelectronics

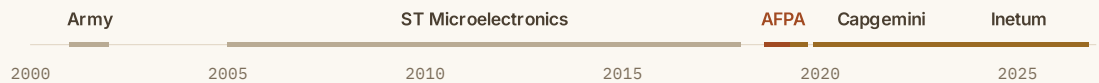
70+

applications maintained at CEA

RNCP 7

Expert DevOps, in progress

Career path



EXPERIENCE



Jan 2026 — now

● current

Inetum IT services · Apr 2023 — now

.NET Developer — ANR — French National Research Agency

- Evolutive and corrective maintenance of the SIM platform, which manages national research grant calls (legacy ASP.NET WebForms application).
- GitHub Copilot and AI assistants used daily: framing, reviewing and steering generated code.

STACK ASP.NET WebForms, .NET Framework, SQL Server, Dapper, SharePoint, GitHub Copilot, Jira

Apr 2023 — Dec 2025

.NET Developer — French Alternative Energies and Atomic Energy Commission

- Maintenance portfolio of 70+ web applications, across build and run.
- CI/CD with Azure DevOps, SonarQube quality gates and unit testing.
- Legacy (.NET 4.8, Razor, Kendo UI) and modern (.NET 8) stacks.
- IS modernization: SQL Server 2014 → 2019 Cluster migration, Serilog / ELK logging.

STACK C#, .NET 8, Entity Framework, Azure DevOps, SonarQube, SQL Server, IIS, Keycloak, ELK

Capgemini

Jun 2021 — Mar 2023

IT services · Nov 2019 — Mar 2023

Backend & PL/SQL Developer — EDF — GEMODO project

- Java / KornShell backend development on RedHat Linux and Informatica ETL workflows.
- PL/SQL procedures validating data syntax and semantics against business rules.
- Automated data injection with UFT (VBScript).

STACK Java, PL/SQL, Oracle, Informatica, Control-M, Jenkins, RedHat Linux, SFe

Jun 2020 — Jun 2021

Architecture Migration & Performance Testing — EDF — DPA application (MES)

- Led the upgrade of DPA, an MES preventing SPC drifts: migration from 4 to 5 servers.
- Switched data sources from legacy ODBC connections to a modern MES (Hadoop Espadon).
- Load testing to validate performance in Near Real-Time mode.

STACK Hadoop, SQL Server, PowerShell, Windows Server, HP ALM, Aspentech

Nov 2019 — May 2020

Software Developer — EDF & Rio Tinto — MES team

- MES proofs of concept and redesign of the Rio Tinto mobile interface.
- CI/CD test automation pipelines on hybrid Linux / Windows environments.

STACK Angular 6, Ionic 3, GitLab, Jenkins, Selenium

Apr — Sep 2019

Software Developer (internship) — Cerberis

- SaaS daemon integrating Microsoft Exchange in .NET (Office 365 APIs, OAuth 2.0 / OpenID Connect), deployed on Azure.

STACK .NET, Azure, Cosmos DB, Office 365 API

INDUSTRIAL BACKGROUND

2005 — 2018

Process technician, then maintenance technician — ST Microelectronics

Dry etching (LAM Research, TEL) on 200 mm wafers, TPM approach and Lean culture. Contributed to productivity gains during the 2008 crisis.

2005

Wiring assembler — Canalog

Glass syringe manufacturing machines for the pharmaceutical industry.

2001

IT assistant (military service) — 68th African Artillery Regiment

Digitized vehicle maintenance logs and built VBA macros.

SIDE PROJECTS

IFTTT-TRADING

Non-custodial Solana swap automation driven by conditional rules. MVP consolidated with a full DevOps ecosystem: Ansible provisioning, GitLab CI/CD, Prometheus / Grafana monitoring, Vault secrets, S3 backups.

Angular 18, NestJS, PostgreSQL, Docker Compose, Ansible

BIOROUTINE

Health dashboard used daily (Huawei Health, Strava, nutrition) with a voice-driven AI assistant (Claude) and a companion Android app published on Google Play.

Next.js, Fastify, React Native, Kotlin, n8n

DICTÉE UNIVERSELLE

System-wide voice dictation for Windows: global hotkey, transcription via the OpenAI API, auto-paste into the focused field. Open source (MIT), signed releases.

.NET 10, WPF, NAudio, OpenAI API, GitHub Actions

CLAUDE VISUAL CODE

Voice-first mobile client for Claude Code: dictate intent from Android, watch the work in real time, browse files and use the terminal.

Flutter, Dart, code-server, VS Code API, SSH

SKILLS

.NET & BACKEND

C#, .NET 8 / 4.8, ASP.NET, Entity Framework, Dapper, Java

DATA

SQL Server, Oracle, PL/SQL, Informatica, Cosmos DB

DEVOPS & QUALITY

Azure DevOps, GitLab CI, Jenkins, SonarQube, Selenium, ELK

FRONT

Angular, TypeScript, JavaScript, Kendo UI

SYSTEMS

Windows Server, IIS, RedHat Linux

AI

GitHub Copilot, Claude Code

EDUCATION

2026

Expert DevOps — RNCP level 7
— in progress

OpenClassrooms

2019

Software Designer & Developer
(professional title)

AFPA, Grenoble

2003

DUT GEII — Electrical & Industrial Eng.

Université Joseph Fourier, Grenoble

1996 — 1999 · Scientific Baccalaureate (honours), PCSI, DEUG, IUP MAI

CURRENTLY LEARNING

Docker, Kubernetes, Terraform, Ansible, AWS / Azure

LANGUAGES

French native

English B2

INTERESTS

Skiing

Downhill & enduro MTB

Hiking

FPS video games