Hamza Mounir

Senior Software Engineer l Scalable Systems l Cloud & Microservices l Mentoring and leadership

pixl.

Pixl SRL
BE 0805.449.693

Brussels, Belgium
hamza@pixldev.be
pixldev.be
+32 488 20 35 67

I am a Senior Software Engineer with a strong background in scalable architecture, process optimization, and cloud-based system development. I excel at building and scaling platforms from startup to enterprise, ensuring systems are automated, efficient, and easy to manage.

On the frontend, I deliver modern, responsive, and accessible user experiences using React, Next.js, and advanced UI frameworks—focusing on performance, usability, and seamless integration with backend and AI-powered services.

I have hands-on experience designing and deploying AI-driven tools, including context-aware systems, prompt engineering, token optimization, and streaming LLM responses. I leverage vector databases, retrieval-augmented generation, and model finetuning to build intelligent, production-ready solutions.

I thrive in high-growth environments, where I not only build reliable software but also improve engineering workflows, mentor teams, and push for best practices. My goal is to create highly scalable, self-managed platforms that reduce operational friction and allow businesses to grow without technical bottlenecks.

Technical Skills

Software Architecture & Development

- **Backend Developmen**t: TypeScript, JavaScript, NestJS, gRPC, REST, GraphQL
- **System Design**: Microservices, API-driven architecture, high availability solutions
- **Infrastructure & Cloud**: Kubernetes, Docker, AWS, GCP, Azure
- **Automation & Performance**: CI/CD, process automation, monitoring,

Ai engineering

- **Backend Developmen**t: Built and deployed tools leveraging context improvement, memory, and prompt engineering to optimize LLM calls and reduce token usage.

- **System Design**: Designed and implemented systems for streaming responses, model understanding, and iterative finetuning based on test feedback.
- **Infrastructure & Cloud**: Integrated vector databases and retrieval-augmented generation (RAG) patterns for enhanced information retrieval and semantic search.
- **Automation & Performance**: Automated deployment pipelines and ensured robust monitoring, error handling, and scalability for AI-powered services.

Frontend Development

- **Modern frameworks**: Proficient in React.js, Next.js, and TypeScript for building fast, scalable, and SEO-friendly applications in headless CMS environments
- **System Design, UI/UX**: Skilled in transforming UI/UX designs into pixel-perfect, responsive interfaces using TailwindCSS, and JavaScript and tools like Figma.
- **Performance & accessibility**: Focused on web performance optimization (lazy loading, SSR/ISR), and accessibility (WCAG, ARIA, semantic HTML) for inclusive, high-ranking web experiences.
- **Devops & collaboration**: Experienced with Git, Docker, and CI/CD workflows, ensuring robust development pipelines and effective cross-team collaboration.

Business-Critical Systems

- **FinTech & InsurTech Solutions**: Payments, pricing engines, compliance automation
- **Third-Party Integrations**: Banking APIs, insurance providers, external services
- **Contract & Policy Management**: Automated contract generation, bordereau reporting
- **Scalability & Optimization**: Data migration, performance tuning, distributed systems, dev tools, auto generation code

Leadership & Team Growth

- **Process Improvement**: Reducing inefficiencies in development workflows
- **Mentorship & Knowledge Sharing**: Supporting and guiding teams for better productivity
- **Cross-Team Collaboration**: Working with product, operations, and leadership to align business and tech goals

EXPÉRIENCE

Cohabs, Bruxelles — *Senior Software Engineer*
Avril 2025 - Juin 2025

At Cohabs, I focus on **building a scalable payments service to focus on all edges cases,** to help the team work more efficiently. And most important mirroring transactions to financial tool used by finance department, **accounting & payment consolidation.**

- **Third party api i**ntegration for communication to accounting tool.
- Enhance workflow on events with error managing and queue process.
- **Handle migration** between growing services and changes.
- Focused on **scalability, process automation, and system reliability** in a growing platform.

My role is not just about building software but **helping the team deliver with more reliability and tracing between departments.**

Greenomy, Bruxelles — *Senior Software Engineer*
Jan 2024 - Avril 2025

At Greenomy, I focus on **building a scalable SaaS platform while improving engineering workflows** to help the team work more efficiently.

- **Automated CI/CD processes**, improving deployment speed and reliability.
- Introduced **better development workflows, monitoring tools, and debugging strategies**.
- **Mentored engineers**, reducing friction in problem-solving and improving overall productivity.
- Create features based on business needs and auto scalable solutions.
- Focused on **scalability, process automation, and system reliability** in a growing platform.

My role is not just about building software but **helping the team deliver faster, more efficiently, and with better long-term stability**.

Qover, Bruxelles — *Senior Software Engineer*
2017 - 2024

I was part of the **early technical team at Qover**, helping transform it from a **13-person startup to a 150+ employee scale-up**. I worked across **all major systems**, ensuring that the platform was **scalable, automated, and built for long-term success**.

- Built **authentication, third-party integrations, pricing models, claims automation, and compliance systems**.
- Developed **whitelabel insurance solutions**, making it easy to onboard and launch new

partners at scale.
- Created **contract automation, bordereau generation, financial reconciliation, and notification workflows**.
- Helped migrate and optimize cloud infrastructure from **AWS to GCP**, ensuring high availability.
- Played a key role in **building the foundation of a platform that is still running successfully at scale today**.

Qover was a **true end-to-end experience** in building a **high-growth Insurance as a service and embedded platform**, from **startup launch to full-scale enterprise operations**.

Emakina, Bruxelles — *Internship*

2017

- Developed a **digital signage platform** for real-time content display across multiple screens.
- Integrated **live data feeds (weather, schedules, news updates, etc.)**.
- Optimized **secure authentication and data access processes**.

FORMATION

Institut Paul Lambin, Bruxelles — *Bachelor in Computer Science*

2014 - 2017

COMPÉTENCES

Building Scalable, Self-Managed Platforms – Creating solutions that adapt and grow with the business.

Solving Real-World Business Problems – Aligning technical solutions with company objectives.

Improving Developer Efficiency – Reducing friction through automation, better tooling, and optimized workflows.

Mentoring and Team Leadership – Supporting engineers and promoting best practices.

LANGUES

French (Native)

English (Professional)