

Camille Samson

Full Stack developer & Game Dev

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Portfolio : camille-samson.dev

Summary

As a Full Stack Developer with over 7 years of experience, my background combines a strategic vision acquired through a DCS (*DEC*) in Business Management from LaSalle College (Montreal) with solid technical expertise developed through a Bachelor's degree (*Licence*) in Computer Science from Epitech Paris. Motivated, rigorous, and versatile, I support my clients and teams on complex projects, across both Front-end and Back-end development, spanning various industries.

In parallel, I am diving into the world of game development with Unreal Engine 5 and C++ - a passion that pushes my technical limits on a daily basis.

Professional Experience

Career Transition Project – Video Games

April 2026 – Present

C++ / Unreal Engine 5 Developer

As part of a strategic career pivot into the video game industry, leading the end-to-end development of a third-person open-world Action-RPG. Applying industry standards while transposing 7 years of software engineering expertise into game development.

Core Technical Pillars:

- **C++ Architecture & Programming:** Designing and programming core gameplay systems (Pawn, Character, Actor) using rigorous industry design patterns and data structures optimized for game performance.
- **Combat System & AI:** Developing a melee combat system (weapon handling, hit detection), creating user interfaces (health bars, player stats), and programming diverse enemy AI (armed humanoids, monsters) with autonomous attack behaviors.
- **Animation & Audio:** Integrating custom animations via Motion Warping (Root Motion) and designing immersive, dynamic audio environments using the MetaSounds system.
- **World Building & VFX:** Building a large-scale Open World map, integrating dungeon levels via Packed Level Instances, creating realistic level design with Quixel Megascans, and programming particle effects (blood splatters, weapon trails).

Technical Environment: Unreal Engine 5, C++, Blueprints, Motion Warping, MetaSounds, Quixel Megascans.

Solutions Intelligentes Connect IT – Montréal, QC

February 2025 – April 2026

Full Stack Developer

Solutions Intelligentes Connect It is a consulting firm specializing in supporting SMEs through their digital transformation. Involved in multiple projects for a variety of clients.

Client : Promoflex

Project: Design and development of a web application for end-to-end production management, from project creation to manufacturing tracking and inventory control.

Achievements:

- End-to-end application development
- Overall architecture design (front-end, back-end, database)
- Database modeling and implementation
- Full production cycle management:
 - Project creation and tracking
 - Management of various production stages
- Inventory management and synchronization
- Integration and synchronization with Zoho CRM for automated project creation
- Connection with Zoho Inventory for real-time stock management
- Development of a responsive web application, primarily used on tablets in production environments
- Setup and management of production deployments
- Run management, application maintenance, and production incident/bug fixing

Technical Environment: NestJS, Angular, MySQL, Prisma, NX Monorepo, Firebase, Git, GitHub, Postman, pgAdmin, VSCode, DigitalOcean, Agile Methodology, Figma

Client : Yoga Chaud Ste Hyacinthe

Project: End-to-end design and development of a web-based yoga class booking platform, including a client portal and an employee back-office.

Achievements:

- Application Design: UX/UI mockups, functional and technical architecture
- Database design and modeling
- Frontend and backend development
- Implementation of a class booking system with capacity management
- Employee back-offices for:
 - Creating, modifying, and deleting classes
 - Managing class types
 - Scheduling
 - Tracking registrations
- Integration of online payments with Stripe
- Implementation of a credit-based system for class registration
- Management of bookings and cancellations with automatic credit updates
- Transactional notification delivery (booking, cancellation, confirmation) via SendGrid
- Fully responsive application (mobile, tablet, and desktop) to ensure optimal accessibility for clients and employees
- Management of deployments, RUN, and application maintenance

Technical Environment: NestJS, Angular, MySQL, Prisma, NX Monorepo, Firebase, Git, Agile Methodology, GitHub, Postman, pgAdmin, VSCode, DigitalOcean, Figma

Client : SD Maintenance – Automation & IA

Project: Implementation of an intelligent payment processing automation solution, based on incoming email analysis, to optimize and enhance the reliability of the invoicing process.

Achievements:

- Analysis of the existing invoicing process and identification of friction points and manual tasks
- Development of an automated payment confirmation email analysis system
- Use of ChatGPT / AI to:
 - analyze email content
 - identify the payment type
 - extract and qualify attachments

- o link a received email to a Zoho Books invoice
- Automatic association of payment confirmations with corresponding invoices in Zoho Books
- Automatic update of invoice status (paid invoice) when the match is validated
- Management of ambiguous cases requiring manual intervention
- Setup of a daily automated email
- Sending of an automated daily follow-up email summarizing successfully processed payments and failed cases or those requiring human validation via SendGrid
- Project development within an NX monorepo architecture, consistent with other business applications
- Frontend and backend design and development, RUN management, and evolutionary maintenance

Technical Environment: NestJS, Angular, MySQL, Prisma, NX Monorepo, Firebase, Git, CRON ChatGPT (IA), Zoho Books, SendGrid, APIs REST

Consultant : Zoho Integration – CRM & Automation

Project : Cross-functional involvement for several clients in the management, optimization, and automation of Zoho CRM and Inventory tools, in addition to large-scale application projects.

Achievements:

- Advanced configuration and customization of Zoho CRM, Zoho Inventory, and associated modules
- Analysis of business processes (sales, production, inventory, invoicing) and proposal of optimizations
- Development of scripts and automations (Deluge) to:
 - o automate entity creation and updating, synchronize data between CRM, Inventory, Books, and third-party applications
 - o reduce manual entry and human errors
- Implementation of automated workflows:
 - o triggers on events (creation, update, status change)
 - o automatic notifications (email, internal alerts)
 - o validation rules and data consistency checks
- Development of custom functions to manage complex business rules
- Creation and customization of tailor-made modules in Zoho CRM
- Configuration of blueprints to structure and standardize business processes
- Integration of Zoho REST APIs and connections with external applications
- Management of user rights, roles, profiles, and access security
- Setup of dashboards and reports for performance and operations monitoring
- Technical support, evolutionary maintenance, anomaly correction, and client support

Technical Environment: Zoho CRM, Zoho Inventory, Zoho Projects, Zoho Creator, Deluge Script, APIs REST, Webhooks

Osaxis - Paris, France
Full Stack Developer

April 2021 – September 2024

Osaxis is an IT and engineering consulting firm, working with multiple key accounts in sectors such as health, retail, telecom, public services, and transport.

Client : L'étudiant (Media)

Project : Migration of the back-end and front-end of the application from Symfony 2.5 to 5

Achievements:

- Migration of the back-end and front-end of the editorial part of L'Étudiant
- Technical support and implementation of evolutions on the legacy part
- Participation in code reviews

- Management of Production and Pre-Production deployments
- RUN management, correction of production incidents and anomalies
- Development of new functionalities (Agile)
- Creation of technical and Swagger documentation

Technical Environment: Docker, Git, Symfony 2.8 & 5, VueJs, API Platform, NodeJs, Ansible, MySQL, ElasticSearch, Méthodologie agile, Gitlab, Postman, PhpStorm, VSCode, MySQL Workbench

Client : IPC (Santé)

Projects: Front-end and back-end involvement on two projects: creation of an application offering a dematerialized health questionnaire service for health check-ups, and redesign of a customer journey-oriented application.

Achievements:

- Setup of the technical architecture and environment
- Creation of APIs, the database, and batches
- Implementation of security related to medical data (database encryption, hashing)
- Development of front-end and back-end functionalities (Agile Methods)
- Technical acceptance testing
- Management of Production deployments
- RUN management, correction of production incidents and anomalies
- Creation of technical and Swagger documentation

Technical Environment: Docker, Git, Symfony 4, Angular, PostgreSQL, Jira, DokuWiki, Postman, PhpStorm, VSCode, Adminer

Client : Orange (Télécoms)

Projects: Front-end and back-end involvement on 3 projects:

- Migration of 2 applications from Angular JS to Angular, and from Symfony 3 to Symfony 5
- Creation of new APIs and services on Orange Place, an application allowing subscription to services such as Netflix or Le Monde
- Creation of an API to add KYC, as well as the implementation of the purchase action for an e-Sim in the Spanish market.

Achievements:

- End-to-end redesign of the database and APIs for the implementation of a shopping cart (mobile top-up, eSIM)
- Setup of the technical architecture for migrations and the environment
- Creation of new APIs and flow management, updating of existing databases, implementation of batches
- KYC implementation
- Setup of front-end and back-end security
- Development of front-end and back-end functionalities (agile methods)
- Management of production deployments
- RUN management, correction of production incidents and anomalies
- Creation of technical and Swagger documentation

Technical Environment: Docker, Git, Symfony 3 et 5, Angular JS, Angular, PostgreSQL, Python, Jira, Redmine, Slack, Postman, PhpStorm, VSCode, DokuWiki, phpMyAdmin

Micropole – Paris, France

September 2019 – March 2021

Front-end Developer (internship then work-study)

Micropole is a consulting firm specializing in Digital Transformation, Performance Management, and Data Governance, serving key accounts

Projects :

- Creation of a web application (CREG) linked to a MySQL database, allowing Project Managers to optimize their project steering.1
- Implementation of a digital safe (vault) within the company

Achievements:

- Development of front-end functionalities1
- Technical acceptance testing1
- RUN management, correction of production incidents and anomalies

Technical Environment: Angular, Java, Spring Boot, MySQL, Git, WebStorm, VSCode

Technical Skills

Languages and Frameworks : PHP, C, C++, VueJs, NodeJs, NestJs, NX, Python, Java, TypeScript, JavaScript, SQL, PostgreSQL, Angular, Symfony, SpringBoot, React

Tools and technical skills : Jenkins, Kubernetes , Git, AWS S3, Pipeline (CI/CD), Apache, Docker, PHPStorm, PHPMyAdmin, VSCode, Postman, Figma

Education

Udemy Course - Unreal Engine 5 **April 2026 - Present**

Udemy

C++ & Unreal Engine 5.7 Development : [Creating a Third-Person Open-World Action-RPG](#)

Bachelor's Degree - Expert in Information Technology

2018 – 2021

Epitech, Paris, France

Project-based training in C, C++

DEC in Business Management

2015 – 2018

Collège LaSalle, Montréal, Canada

General training in business administration.

Introductory Course to C Language

2015 – 2015

Université de Montréal / Arts & Sciences

Certifications

2022 - Certification [Opquast](#)

Score: 820/1000

2016 - Creative entrepreneur contest

Collège LaSalle, Montréal,

Result: 3rd place

Languages

French – Native language

Anglais - Bilingual