

Adrien Dudon

Willing to relocate anywhere

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SKILLS

Programming

Java, JavaScript, TypeScript, HTML, CSS, C++, C#, Python, PHP, SQL.

Fullstack, API REST.

Tools and Frameworks

Angular, React, Spring Boot

Git, Jakarta EE, Linux, SonarQube,,

UML, Docker, CI/CD, PostgreSQL

Machine Learning

PyTorch, TensorFlow,

Reinforcement Learning

Project Management

Agile (Scrum, Kanban), team

management

Jeu vidéo

Unity, Unreal Engine, SFML, Gameplay, UI, Multijoueur, IA

Soft skills

Curiosity, team spirit, rigorous, open to learning new technologies

LANGUAGES

French : native

English : fluent (2 years living in Ireland - TOEIC: 905/990)

REFEREES

Will be provided during an interview to ensure confidentiality.

SOFTWARE DEVELOPER

2 years of proven professional experience in software development. Strong skills in full stack and back-end development, AI and low-level programming (C++). Experienced with Agile practices (Scrum, Kanban). Curious, rigorous, autonomous and excellent communication skills. In the future, I would like to train in embedded software engineering.

EDUCATION

Master's degree in Software and Video Games Development

June 2025

Honours

Haute École Albert Jacquard | Namur, Belgium

Video game development: Unreal Engine (C++), gameplay, UI, mathematics, project management

Bachelor of Science (Honours) in Software and Computer Games Development

June 2023

First Class Honours

South East Technological University | Carlow, Ireland

Video game development: Unity, SFML, C++, C#, AI, online multiplayer; Machine Learning

Bachelor of technology in Design and Development of Distributed Applications

Sep 2021

Robert Schuman University Institute of Technology | Illkirch-Graffenstaden, France

Dev. Full stack (React, Java, Spring), REST API, Agile (Scrum) - Apprenticeship

Undergraduate diploma in technology in Computer Science

Aug 2020

Metz University Institute of Technology | Metz, France

PROJECTS

Alazia (jeu vidéo)

Sep 2023 - June 2025

adriendudon.me/alazia

Third-person "cosy" action-adventure game, where your goal is to drain and redistribute vital energy from the living world to solve puzzles. - **Technologies:** C++, Unreal Engine.

I developed gameplay elements, designer tools, and managed the project using Agile and Scrum.

Research thesis: comparison of neural network agents

adriendudon.me/cnnvsswin

Comparison of AI agents learning to play video games using reinforcement learning from a Convolutional Neural Network and a Vision Transformer (ViT).

Published in the [24th International Conference on Intelligent Games and Simulation, GAME-ON 2023 in Carlow, Ireland](https://www.game-on2023.com/). **Best Project Award.**

Run4Exp (Software)

adriendudon.me/run4exp

Sport app (web and mobile) where the player's real life positions are displayed on a map in a virtual world - **Technologies:** TypeScript (ReactJS), Java (Spring Boot), PostgreSQL.

WORK EXPERIENCE

Full Stack Engineer

March 2022 - Aug 2022

Expleo - Montigny-le-Bretonneux, France

- Improved the workflow for returning defective car parts from Renault vehicles for analysis purposes. *Internship as part of my Bachelor of Science.*
- Developed an app to replace a shared Excel spreadsheet used by dozens of incidentologists (Angular, Spring Boot; TypeScript, Java).
- Helped shape a forward-looking vision, which led to the interest of Renault to implement a similar system internally.

Web Developer

Sep 2020 - Sep 2021

CG Project Management - Strasbourg, France

- Designed and developed features for a project management application called *Gouti* (JavaScript, PHP). *Apprenticeship as part of my Bachelor of technology.*
- Developed highly requested features such as "Project Templates" or "Knowledge base".
- Led to the growth of the main app features, gradually transforming it into an ERP software.

Talend ETL Developer

May 2020 - July 2020

University of Versailles Saint-Quentin-en-Yvelines - Versailles, France

- Developed, tested, and validated the extraction of data with the Talend Data Integration tool on the university databases. *Internship as part of my Undergraduate diploma in technology.*
- Extracted and formatted data requested by the French Higher Education Ministry to assess the success of a government reform.
- Developed an automatic verification script on the university databases, which improved data validity and integrity.
- Facilitated the generation of online exams during the COVID-19 crisis.