

ALEXANDRE DECOLLAS

SOFTWARE CRAFTSMAN | FULL STACK

11 YEARS EXPERIENCES

With 12 years of experience, I excel in web development, specializing in both front-end and back-end technologies, notably JavaScript (Angular, NestJS, Node.js) and Java. Committed to Clean Architecture and Code, I deliver scalable and high-performing solutions.

An expert in unit testing and clean code, I ensure application reliability and performance through impeccable code quality. My skills also extend to DevOps, enhancing application lifecycle management.

CONTACT



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SKILLS

Angular 2+
NodeJS
NestJS
Jest
PostgreSQL/MSSQL/SQL
RxJS
Java
REST
HTML/CSS/JS
TypeScript
TDD
Tests E2E
Docker
CI/CD



EXPERIENCES

Fullstack dev, YODA.PROF

OCTOBER 2023 - TODAY

- Developed "yoda.prof," a SaaS platform for online training, integrating videos, slides, and PDFs to create an intuitive and engaging learning environment.
- Integrated AI to offer personalized training scenarios, adapting to user progress and needs, enhancing the learning experience.
- Deepened skills in SaaS development and AI integration, overcoming challenges in digital content management and user experience optimization.
- The project showcased innovation and the ability to realize ideas into functional products, emphasizing a commitment to technological advancement in digital education.

Technical stack : Angular, PrimeNG, NestJS, Jest, Postgresql, Keycloak, Docker, Github CI. Trunc-based development, TDD, hexagonal architecture, continuous CI/CD

SOLUTION ARCHITECT, APTIC

APRIL 2022 - OCTOBER 2023

- Led the technical overhaul of a platform connecting training centers, funding bodies, and learners, focusing on digital accessibility.
- Designed and implemented new front-end and back-end architectures to enhance user experience, system performance, and maintainability.
- Developed clear user interfaces, interactive guides, and ensured compatibility across devices, addressing accessibility challenges.
- Demonstrated ability to turn complex requirements into effective technical solutions, with a commitment to inclusion and making education accessible to all.

Technical stack : Angular, PrimeNG, NestJS, Jest, Postgresql, Make(previously integromat), Docker, Gitlab CI, Kubernetes. Trunc-based developement, continuous CI/CD

FRONTEND ARCHITECT, PRIMOBX

DECEMBER 2022 - SEPTEMBER 2023

- Led the digital transformation of a legacy HR management application, developing a modern front-end and enhancing the back-end architecture.
- Established an innovative architecture for two distinct applications, sharing a common library managed via Storybook for UI/UX component harmonization and reuse.
- Contributed to back-end functionalities, focusing on application robustness and scalability, aligned with HR management's specific needs.
- Acted as a mentor, enhancing the team's proficiency in Angular and Jest, leading to increased autonomy and innovation capability.

Technical stack : Angular, PrimeNG, Jest, Storybook, Java, MSSQL, Docker, Gitlab CI

DEVELOPER BACKEND, Prestashop

JULY 2021 - APRIL 2022

- Contributed to the development of two key open-source libraries, enhancing the platform's technical infrastructure for modern and scalable technology integration.
- Updated PrestaShop's core library to integrate the CQRS library from NestJS with EventStore database, significantly improving the application's architecture for event and command management.
- Developed an interconnection library to solve compatibility issues between different versions of EventStore, ensuring seamless communication within the PrestaShop ecosystem.
- Demonstrated expertise in complex open-source projects, with a focus on modern software architectures and solving high-level technical challenges. Contributed to PrestaShop's ongoing enhancement, focusing on flexibility, scalability, and advanced technology integration.

Technical stack : NestJS, Jest, Eventstore, Microservices, cqrs

LEAD DEVELOPER/ SCRUM MASTER, Moonda

FEBRUARY 2021 - JUNE 2021

- Took charge during a critical mission to deploy the flagship product for a key client, leading key areas and integrating new team members for a successful launch.
- Post-launch, led the establishment of a true Agile methodology, incorporating two-week sprints, grooming sessions, and team training, marking a significant shift towards the industrialization of development.
- Implemented unit testing using the Jest framework, including team training, and introduced end-to-end testing with cucumber/puppeteer to aid the sole QA in ensuring product quality.
- Contributed to the development of new features within these sprints, enhancing product capabilities and client satisfaction.
- Engaged daily with an international team (including Russians and Ukrainians), requiring proficient English for effective collaboration, while also mentoring junior team members and sharing best development practices.

Technical stack : Angular, Jest, Agility, Scrum

DEVELOPER FULL STACK, Dedalus

APRIL 2020 - JANUARY 2021

- Post-version release, focused on bug resolution while enhancing technical and functional understanding of the project, leading to significant technical improvements:
 - Transitioned the project from SVN to Git for improved version control.
 - Migrated the unit testing framework to Jest, enhancing testing efficiency.
 - Implemented modularization to improve testability and reduce testing costs.
 - Established a foundational unit test structure for services, directives, and components to improve front-end test coverage and facilitate team skill development.
- For a PDF production and printing application:
 - Optimized performance via targeted refactoring and parallelization with NodeJS.
 - Implemented Jest for unit testing and introduced dependency injection with InversifyJS for better modularization.
 - Developed a proof of concept (POC) for the protection of confidential PDFs and utilized the pdfTron library for merging and protecting PDFs (PDF/A).

Technical stack : Node.js, Angular, Jest, inversifyJS, PDF, Clean Architecture

LEAD DEVELOPER FULL STACK, Maincare Solutions

NOVEMBER 2019 - APRIL 2020

- Led the integration of a newly acquired development framework, developing POCs to enhance team capabilities and demonstrate the framework's mechanics.
- Overcame initial obstacles through management support and team collaboration, leading to a pivotal evolution in our development practices towards advanced VueJS and TypeScript, with Jest for unit testing.
- Modernized the backend development with JUnit, reflecting our team's adaptability and collaborative spirit.
- Managed team expansion from 2 to 5 developers, embracing new frameworks and methodologies, focusing on Clean Code, SOLID principles, TDD, and pair programming.
- Transitioned to Agile with two-week sprints, product demos, grooming sessions, and retrospectives, enhancing workflow and team cohesion.
- Implemented a complete CI/CD pipeline, emphasizing continuous improvement and operational efficiency.
- Strengthened communication and collaboration with framework teams in Dijon, highlighting teamwork's role in achieving project objectives.

Technical stack : Java, Vue.js, JavaScript, gitlab cicd, TypeScript, Jest, JUnit, TDD

DEVELOPER FRONT, Betclic

APRIL 2018 - NOVEMBER 2019

- Contributed to the development of Betclic's web application features using Angular versions 5, 6, and 7, transitioning to a new project direction in February.
- Played a key role in the early development stages of a new, highly confidential brand for Betclic, utilizing Angular 7 and embracing a complex development environment.
- Focused on RxJS for efficient memory management and implemented Server Side Rendering (SSR) to enhance technical innovation.
- Maintained high code quality and reliability through adherence to Clean Code and SOLID principles, and the rigorous application of Test-Driven Development (TDD).
- Strengthened team collaboration via regular code reviews and pair programming, sharing knowledge and ensuring code excellence.
- Adopted Agile methodology, developing features in bi-weekly sprints in close collaboration with the Product Owner, aligning with project goals.
- Worked in an international context, enhancing professional and personal growth in a multicultural environment through daily communication in English.

Technical stack : Angular, HTML/CSS, RxJS, TDD, Server Side Rendering, MVP, Karma

DEVELOPER FULL STACK, Banque postale

DECEMBER 2017 - MARCH 2018

- Developed several applications utilizing Spring and Angular, delivering innovative solutions within a secure and demanding environment.
- Led the design and development of a password management application from scratch, employing Spring for the back-end, Angular 4 for the front-end, and integrating OpenDJ as the LDAP server, addressing secure user access management challenges.
- Created REST services using Spring, embracing a Test-Driven Development (TDD) approach to ensure service quality and reliability, following strict technical documentation.
- Contributed to the development of significant functionalities for the bank's major Angular 5 project, involving the setup of Spring-based REST services from detailed specifications, aiding La Banque Postale's digital transformation in the banking sector.

Technical stack : Angular, NgRx, RxJS, HTML/CSS

DEVELOPER FULL STACK, Banque postale

APRIL 2017 - NOVEMBER 2017

- Played a pivotal role in enhancing the internal portal for branch advisors, focusing on both front-end and back-end development to improve efficiency and user experience.
- Developed the front-end using FwAd, a proprietary framework inspired by AngularJS, to create intuitive and efficient interfaces for simplified advisor operations.
- Utilized Java with Spring Boot and Maven on the back-end, adopting a REST architecture for robust and scalable service solutions, capable of managing large data volumes with optimal performance.
- Worked within an AGILE environment, collaborating closely with multiple development teams on different portal aspects, requiring tight coordination and effective communication.
- This project enhanced my full-stack development skills and AGILE team collaboration abilities, contributing to the continuous improvement of the banking advisors' internal portal.

Technical stack : Angular, NgRx, RxJS, HTML/CSS

DEVELOPER FULL STACK, EDF

NOVEMBER 2016 - MARCH 2017

- Designed and developed a POC for a user interface at EDF, applying front-end and back-end skills within an Agile development framework.
- Initiated front-end development with Angular2, transitioning to React to align with a strategic technological shift, enhancing my adaptability to diverse tech stacks and contributing to a responsive, high-performance UI.
- Developed robust and reliable REST services using Java and Spring Data on an Apache JBoss server.
- Actively engaged in Agile processes, including planning poker, user story creation, and task breakdown, facilitating rapid client feedback integration.
- Collaborated closely with the team, clients, and SCRUM Masters, ensuring transparent communication and regular project updates.
- Implemented new features and wrote unit tests for the front end using Karma, playing a critical role in the success of regular project demonstrations and continuous adjustments.
- This project underscored my technical proficiency and client-focused approach within an Agile development context.

Technical stack : Angular, React.js, jboss, Java, Spring Data, REST

DEVELOPER FULL STACK, Conseil régional Aquitaine

MAY 2016 - OCTOBER 2016

- Participated in the development and ongoing support of a major application for approximately 4000 users, applying comprehensive software development skills for continuous improvement.
- Focused on JAVA/J2EE development, navigating the challenges of integrating and maintaining legacy technologies such as Struts 1.2, alongside managing data with the PostgreSQL database system for system integrity.
- Tasked with front-end development, utilizing JavaScript and CSS to align with the organizational graphical charter, enhancing the user interface and experience.
- Demonstrated ability to handle complex projects requiring a blend of technical proficiency and a keen focus on user experience, adept at working within mixed development environments of modern and legacy technologies.
- Contributed significantly to the support and progressive enhancement of a crucial system for the Regional Council of Aquitaine, showcasing adaptability and dedication to system evolution.

Technical stack : java J2EE, Struts, PostgreSQL, SQL

DEVELOPER FULL STACK, Orange

SEPTEMBER 2015 - APRIL 2016

- Developed features for a project targeting around 200 users, showcasing versatility and adaptability in web development and delivering robust, user-friendly solutions.
- Utilized PHP and Zend2 for the backend, establishing a dynamic web application foundation, with MySQL for efficient data management, ensuring performance and security.
- Managed front-end modifications and feature additions using JavaScript and CSS, adhering to Orange's graphical charter, including AJAX call creation and modification to boost interactivity and user experience.
- Demonstrated the ability to contribute effectively to the project's technological growth, focusing on innovative features that meet design and user experience expectations.
- Emphasized commitment to delivering high-quality solutions tailored to the needs of a demanding corporate environment.

Technical stack : PHP, Zend 2, MySQL, JavaScript, css

DEVELOPER , Pages Jaunes, Solocal Group

FEBRUARY 2014 - AUGUST 2015

- Focused on automating manual tasks to optimize operational efficiency, necessitating a thorough understanding of internal processes and the development of innovative solutions.
- Automated a significant portion of the data integration chain, dramatically reducing the time and resources required for processing and integrating large data sets into the company's systems.
- Developed a Java application with a SWING user interface to facilitate user interaction with the automation processes.
- Utilized the POI API for Excel document modifications, enabling efficient data manipulation, and integrated with the Oracle DBMS for smooth data management, ensuring information integrity and security.
- Created Excel macros in VBA to further enhance data processing speeds, optimizing internal workflows and significantly improving overall productivity.
- Demonstrated the ability to identify and implement process optimization opportunities, significantly enhancing the company's operational efficiency and enabling better resource allocation towards higher-value activities.

Technical stack : Java, Java Swing, Oracle Database, Macros Microsoft Excel, Visual Basic for Applications (VBA)

DEVELOPER , Primobox

DECEMBER 2012 - DECEMBER 2013

- Developed new features for the main application using Java J2EE, aligning with client needs in a fast-paced environment.
- Implemented a server monitoring solution with Nagios, enhancing real-time surveillance and proactive IT infrastructure management.
- Integration of Nagios improved system maintenance, reliability, and provided comprehensive infrastructure visibility.

Technical stack : java J2EE, Nagios

E D U C A T I O N



Master 2 : Hight Performance Computing , Université Bordeaux

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2007 - 2012

High Performance Computing is the optimization of programs running on massively parallel machines, like supercomputers. These machines are composed of a lot of CPUs and GPUs, possibly a network. This kind of programmation faces specific problems in term of performances and ressources.