



# ZAM BIDZHELOV

SENIOR SOFTWARE ENGINEER

FRONTEND ARCHITECT  
&  
UI/UX DEVELOPER



## PROFILE

High-Load Frontend & Platform  
Integration

Process-Driven Web Applications

Cross-Platform & Real-Time  
Applications

Process-Centric UI & UX Design

Design and implementation of high-performance frontend architectures integrated with backend platforms, CRM systems, and financial services such as Plaid and similar APIs. Data management for complex frontend applications, implementing predictable, high-performance state architectures using reactive state management libraries and patterns. Focused on scalability, data consistency, and reliable operation under peak-load conditions.

Architecture and development of event-driven, process-oriented web applications, including workflow dashboards, task-based UIs, and real-time data visualization. Designed to support long-running processes, human-in-the-loop workflows, and automation engines such as Camunda and BPMN-based platforms.

Development of cross-platform web and hybrid applications with real-time data synchronization, optimized for high concurrency and responsive user interaction. Integration with process backends, event streams, and automation services.

Good ability to work closely with other developers and professionals.



## CONTACT



+34 602 039 916



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## ABOUT ME

Frontend Architect and Senior Software Engineer specializing in the design and delivery of **high-performance, scalable web applications** capable of handling **high traffic** and **peak-load scenarios**. Focused on building **resilient frontend architectures** that ensure **performance, maintainability, and predictable UI behavior** under **high concurrency** and **data-intensive workloads**.

Experienced in designing **frontend architectures for process-driven and automation-oriented systems**, integrating with **workflow and business process engines** such as **Camunda** and **BPMN-based platforms**. Skilled in modeling **long-running processes, task lifecycles, state transitions, and human-in-the-loop workflows**, with clear visualization of **process state, task ownership, and execution progress**.

Expert in **client-side performance optimization, state and data management, and modern reactive frontend state architectures**, delivering **fast, responsive interfaces** through efficient rendering strategies.

Strong background in **scalable, modular, component-driven architectures**, including **microfrontend patterns**, enabling independent development and deployment across **large, distributed teams**.

Applies a **pragmatic, data-driven approach** to frontend engineering, with a solid understanding of **process-centric UI patterns** such as **task queues, workflow dashboards, form-driven steps, and event-based updates**. Works closely with **backend, DevOps, automation, and product teams** to deliver **robust frontend solutions** that perform reliably during **peak traffic events, process-heavy operations, and automation-driven workflows**.



## PROFESSIONAL EXPERIENCE

SENIOR FRONTEND ENGINEER / 2024 – 2026

### DEUTSCHE TELEKOM

Worked as a **Senior Frontend Engineer** on enterprise-scale applications, responsible for designing and delivering of **high-performance, scalable frontend systems** operating under **high traffic** and **data-intensive workloads**. Focused on building **resilient, maintainable frontend architectures** that ensure **predictable UI behavior** under **high concurrency**.

Designed and implemented **process-driven frontend architectures** integrated with **workflow and business process automation platforms**, including **Camunda** and **BPMN-based systems**. Built frontend layers capable of modeling **long-running processes, task lifecycles, state transitions, and human-in-the-loop workflows**, providing clear visualization of **process state, task ownership, and execution progress**.

Developed **workflow dashboards, task queues, and form-driven process interfaces**, enabling users to efficiently interact with automation-driven business flows. Emphasized **event-driven UI updates** and **reactive state management** to keep frontend state synchronized with backend process engines in real time.

Applied advanced **client-side performance optimization strategies** and **modern reactive state architectures** to deliver fast, responsive interfaces while maintaining scalability and long-term maintainability. Leveraged **modular, component-driven architectures**, including **microfrontend patterns**, to support independent development and deployment across distributed teams.

Collaborated closely with **backend, automation, DevOps, and product teams** to align frontend architecture with business processes, infrastructure constraints, and enterprise standards, ensuring reliable operation during **peak traffic events** and **process-heavy workflows**.

### Technologies & Architecture

**Frontend:** Angular, NX, Libraries, TypeScript

**State & Reactivity:** RxJS, reactive state management

**Process Automation:** Camunda, BPMN-based workflow engines

**Architecture:** Modular component architecture, microfrontends

**Integration:** REST APIs, event-driven communication.



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## PROFESSIONAL EXPERIENCE

FULL STACK ARCHITECT / TEAM LEAD / 2022 – 2024

### LL FOUNDS

Led the development of a **financial services platform**, contributing across frontend, backend, and system integration layers. Took ownership of platform architecture and implementation, including secure and scalable integrations with external financial providers such as **Bloomberg** and **Plaid**, enabling real-time access to market data, account information, and transaction flows.

Designed and implemented a **real-time financial reporting system**, aggregating data from multiple sources to provide instant visibility into orders, invoices, financial events, and expenses. Built data processing and visualization layers optimized for low-latency updates and accurate financial insights.

Developed a **flexible, user-driven reporting framework** that allowed users to create personalized, role-based reports, supporting custom filters, aggregations, and data views without requiring additional backend development.

Implemented a **reactive, modular frontend architecture** using React and Angular, leveraging RxJS for asynchronous data streams and real-time updates. Adopted an **Nx-based monorepo** to enable shared libraries, consistent standards, and scalable team collaboration across web and mobile applications.

Built and integrated backend services using **NestJS**, implementing secure APIs and authentication flows based on **OpenID Connect** and **OAuth 2.0**. Containerized services using **Docker** and deployed the platform within an **AWS cloud environment**, ensuring scalability, reliability, and operational consistency.

Extended the platform to additional interaction channels, including **mobile applications built with React Native** and **voice-baALPHA SCHOOLS GROUPed interfaces using Alexa Skills and Alexa APL**, enabling hands-free access to financial insights and reports.

### Technologies & Architecture

**Frontend:** React, Angular, React Native, Storybook

**State & Data Flow:** RxJS, JSON-based data models

**Monorepo & Tooling:** Nx

**Backend:** NestJS

**Security & Authentication:** OpenID Connect, OAuth 2.0

**Infrastructure & DevOps:** AWS, Docker

**Integrations:** Bloomberg, Plaid

**Voice Interfaces:** Alexa Skills, Alexa APL

FRONTEND ARCHITECT / TEAM LEAD / 2020 – 2022

### ALPHA SCHOOLS GROUP

Led the end-to-end development of a **CRM platform for educational institutions**, covering **frontend architecture design**, application implementation, and **real-time system integration**. Designed and implemented a **scalable frontend architecture** to support complex workflows including academic management, administrative operations, data ingestion, reporting, and **real-time communication**.

Developed a **modular, reactive frontend system** using **Angular** and **React**, enabling predictable state management and efficient data flows across management dashboards, reporting tools, and communication modules.

Implemented **real-time data visualization interfaces** to deliver live operational insights, leveraging **WebSocket-based communication** for low-latency updates.

Designed and delivered an **advanced reporting and analytics layer**, integrating **Elasticsearch** for fast querying and large-scale data aggregation, enabling the creation of customizable, role-based reports tailored to institutional needs.

Integrated a **real-time communication and notification system** to enable seamless interaction between educational staff and family members, supporting messaging, alerts, and digital assistance features. This significantly improved engagement, responsiveness, and operational transparency across the platform.



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## PROFESSIONAL EXPERIENCE

Collaborated closely with backend services built on **Node.js** and **NestJS**, implementing efficient API consumption, event-driven data updates, and scalable client-server communication patterns. Deployed and operated the platform within a **cloud-based AWS infrastructure**, ensuring reliability, scalability, and performance.

### Technologies & Architecture

**Frontend:** Angular, React, Ionic, RxJS, NgRx, Nx (monorepo architecture)

**Backend Integration:** Node.js, NestJS, WebSockets (real-time, socket-based communication)

**Data & Search:** Elasticsearch (analytics, reporting, large-scale data aggregation)

**Infrastructure & Cloud:** AWS (scalable cloud deployment and operations)

**Architecture Patterns:** Reactive programming, modular component-based architecture, real-time event-driven systems

**Integrations:** Bloomberg, Plaid

**Voice Interfaces:** Alexa Skills, Alexa APL

### DATA-ORIENTED FRONTEND ENGINEER / 2018 – 2020

#### GROUP ISAGRI

Led the design and development of a **financial management and accounting platform** tailored for the **agricultural sector**. Contributed across **business analysis, frontend development, and UX design**, translating complex accounting requirements into clear, usable digital workflows.

Analyzed and consolidated **financial and accounting data** from multiple sources to establish a **unified business visualization and reporting system**. Designed data models and processing flows to ensure consistency, traceability, and accuracy across financial records.

Designed and implemented a **centralized financial visualization interface** aimed at minimizing manual reconciliation efforts and enabling **real-time operational processes**. This interface provided consolidated views of financial activity, improving transparency and decision-making.

Built a **robust aggregation system** to combine **orders, invoices, events, and real-time expense data** into a single, coherent financial overview. Implemented interactive data visualizations using **Canvas-based rendering** for dynamic and performant charting.

Engineered a **flexible reporting toolset** that enabled users to generate **precise, personalized financial reports**, supporting custom filters, data groupings, and domain-specific business requirements without additional development effort.

### Technologies

Node.js, Angular, Ionic, RxJS, Canvas, JSON

### FULL STACK DEVELOPER / 2017 – 2018

#### SEGUR

Contributed to the design and development of a **security platform for large-scale data processing**, supporting **high-volume data ingestion** and real-time analysis in systems integrated with **machine learning and neural network components**.

Designed and implemented **security-focused applications** to reinforce and integrate **video surveillance and facial recognition systems**, enabling **real-time event processing**, monitoring, and alerting workflows.

Built **real-time communication layers** using **WebSocket-based messaging** to support low-latency data streams between backend services and frontend monitoring interfaces.

Developed frontend interfaces using **Angular 4** and **Ionic 3**, applying **reactive programming principles** with **RxJS** to manage asynchronous data flows and live system updates.



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## PROFESSIONAL EXPERIENCE

Implemented backend services using **Node.js**, **LoopBack**, and **Express**, exposing structured **JSON-based APIs** to support scalable data exchange between security subsystems.

### Technologies

Node.js, Angular, Ionic, RxJS, LoopBack, Express, WebSockets, JSON

### FULL STACK DEVELOPER / 2016 – 2017

#### ALRAJHI BANK

Contributed to the development and ongoing evolution of a **mobile banking application**, participating in the design, implementation, and maintenance of the bank's **core digital banking platform**. Supported continuous monitoring, review, and enhancement of application features to meet security, performance, and regulatory requirements.

Designed and implemented an **administrative communication system** to support internal banking operations, enabling secure data exchange and workflow coordination across backend services and client applications.

Developed **frontend interfaces** and defined **data structures** and **application workflows** to support core banking operations, ensuring consistency between user interactions, business logic, and backend services.

Implemented **asynchronous request handling** using ES6, **RxJS Observables**, and **WebSocket-based communication** to support real-time updates and responsive user experiences. Built and consumed **RESTful APIs** supporting full **CRUD operations** across banking modules.

Applied **unit testing and integration testing** practices to validate system behavior, ensure data integrity, and support stable releases within a security-sensitive financial environment. Participated in code reviews and quality assurance processes to maintain platform reliability.

Integrated **SMS-based One-Time Password (OTP) validation systems** to support **secure authentication and transaction verification** for mobile banking users.

### Technologies

Node.js, Angular, Ionic, Cordova, REST APIs, CRUD, RxJS, WebSockets, SMS OTP Validation Systems

### FULL STACK DEVELOPER / 2012 – 2016

#### WEB STUDIO BARS

Designed and developed **high-traffic web applications** serving large user bases, including **web portals**, **trading platforms**, **e-commerce systems**, **social networking applications**, and **affiliate marketing platforms**. Focused on building **scalable, performance-oriented architectures** capable of supporting high concurrency and sustained user activity.

Implemented **real-time, interactive web applications**, including **user registration and authentication systems**, **live chat functionality**, and **dynamic data visualization** using **HTML5 Canvas-based charts**. Applied asynchronous communication patterns to ensure responsive user interfaces and low-latency updates.

Developed backend services using **Node.js** and **Express**, exposing structured **JSON- and XML-based APIs** consumed by frontend applications via **AJAX** and asynchronous HTTP requests. Ensured efficient client-server communication and reliable data exchange across system components.

### Technologies

Node.js, AngularJS, Express, AJAX, jQuery, Bootstrap, JSON, XML



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## PROFESSIONAL CODING SKILLS

- JavaScript
- TypeScript
- NGRX
- RxJS
- Java
- Redux
- ThreeJs/Shader
- Web Components
- Angular
- HTML5/CSS
- Ej2 Libraries
- SASS/LESS
- NodeJS NPM
- Tailwind CSS
- NX Workspace
- Ionic
- React
- React Native
- Scrum/Agile
- NestJs/Next
- Storybook
- Keycloak
- GIT
- PostgreSQL
- pgAdmin 4
- MongoDB
- Mongoose
- Docker / Compose
- CI/CD with Docker
- Nginx Server
- AWS Lambda
- AWS Services
- OpenId Connect
- OAuth2.0
- VueJS
- Linux Jenkins Octopus
- Microfrontend Architecture
- NX Workspace
- Process-Oriented UI
- BPMN / Process



## PROFESSIONAL DESIGN SKILLS

- Adobe Creative
- Adobe Figma
- Web UI Design
- Mobile App UI Design
- Logo Design
- Graphic Design
- Print Design



## LANGUAGES

ENGLISH

FRENCH

SPANISH



## ADDITIONAL DETAILS

- Currently studying:  
**Máster en Data Science Online - Big Data y Data Science.**
- Constant development, sports.