



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



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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-based interfaces using Alexa Skills and Alexa API**, 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 API

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.