

Moise Muhire

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PROFILE

Senior Full-Stack Engineer with over 5 years of experience architecting scalable, multi-tenant SaaS platforms and high-performance **React/Next.js** ecosystems. Expert in bridging the gap between complex backend microservices and sophisticated user interfaces, with a deep focus on state management (**Zustand, TanStack Query**) and modern UI systems (**shadcn/UI, Tailwind**). Proven track record leading cross-functional teams to deliver enterprise-grade solutions, including **Jira-style task management** with custom query languages (PQL) and **IoT-integrated EV charging systems**.

SKILLS

Languages

Typescript, Javascript, Python, SQL

- **Backend & API Architecture:** Node.js , **NestJS** , Express.js , **PQL (Custom Query Language)**, RESTful APIs , WebSockets (Socket.io 🌐) , **OCPP 1.6**, MQTT.
- **Specialized:** AI/LLM Integration (OpenAI API) , Multi-tenant Architecture , Firebase Cloud Messaging (FCM) , Git.
- **Database & ORM:** Prisma , **Sequelize** , **Mongoose** , **PostgreSQL**, **MongoDB** , MySQL , **Azure Cosmos DB** , Redis (Caching).

Expert in React performance (React.memo, useCallback, Next.js App Router, Server Components, React Server Actions)

- **Frontend Ecosystem:** React , Next.js , TypeScript , **TanStack Query (React Query)**, **Zustand**, NextAuth, BetterAuth, **Tailwind CSS**, **shadcn/UI**, React Native.
- **Cloud & Infrastructure:** **Azure** (Container Apps, Blob Storage, Queue, Event Grid) , **AWS** (S3, SES) , **Turborepo (Monorepo)**, Docker , Cloudflare DNS.

PROFESSIONAL EXPERIENCE

Full-Stack Engineer

GÜNSEL

09/2021 – present
Nicosia, Cyprus

- Led backend development for Punica, a modular HR SaaS platform built on Azure services, architecting and delivering subsystems for document collaboration, inventory, calendar, recruitment, and core HR services.
- Optimized frontend performance through dynamic imports and structured data fetching strategies.
- Built advanced client-side state architecture using Zustand + TanStack Query to handle complex data flows across modules.
- Architected and implemented the entire document collaboration & management UI (**React + Azure Blob** integration) with drag-and-drop, real-time updates, and asynchronous processing that eliminated upload timeouts.
- Designed and implemented a dynamic tenant onboarding process using Cloudflare DNS, Azure Blob Storage, and SQL.
- Streamlined deployment workflows by migrating backend operations to structured database migrations, **reducing deployment failures by 30% and cutting average deployment time from 20 minutes to 5 minutes**
- Implemented an integrated document management system using Azure Blob Storage and Azure Queue for asynchronous file processing, **allowing users to process large file uploads without application downtime**.
- Integrated AI-powered task generation and summarization using OpenAI via Azure AI Studio.
- Integrated **Amazon SES** to deliver transactional and system emails across all modules: attendance, docs, tasks, inventory, and calendar.

- Implemented **push notifications** using **Firebase Cloud Messaging (FCM)** across mobile and web platforms.
- Led and mentored a team of developers on a CMS for EV charging station management; **improved code quality and team velocity through rigorous code reviews, resulting in the successful on-time delivery of the platform**
- Engineered a Jira-like Task Management System with advanced JQL-style querying in MongoDB, **enabling complex reporting and improving task traceability for users.**
- Collaborated with the Tech Lead to define requirements and deliver solutions, driving significant improvements in project delivery and cross-team integration.
- Oversaw the deployment of microservices to Azure using Docker and Azure Container Apps.
- Mentored junior developers, conducted code reviews, and worked closely with the Tech Lead to define and deliver critical system components.
- Wrote unit and integration tests for core UI components

Software Engineering Intern

06/2019 – 12/2019

Innovia Digital

Nicosia, Cyprus

- Built a full-stack web application using Laravel (PHP) and Blade templating.
- Designed and developed RESTful APIs MySQL and Laravel ORM.
- Developed dynamic UI interfaces and integrated frontend-backend workflows.
- Participated in agile sprints, using Git for collaboration and CI.

EDUCATION

Master of Science (Artificial Intelligence)

2022 – 2024

Near East University

Nicosia, Cyprus

Bachelor of Science (Software Engineering)

2015 – 2020

Near East University

Nicosia, Cyprus

PROJECTS

Punica HR SaaS Software [🔗](#)

- **Punica Task:** Built a Jira-style task management system with a custom MongoDB-based query engine (PQL) enabling advanced filtering, reporting, and traceability.
- Implemented asynchronous document upload UI with background processing feedback.
- Developed real-time notification and activity systems.
- **Punica Docs:** Designed a scalable document system using Azure Blob Storage + Queue for asynchronous file processing and zero-downtime large uploads.
- **Punica People:** Developed the multi-tenant core and automated tenant onboarding, reducing deployment failures by 30%.
- **Integrations & AI:** Implemented Google Calendar two-way sync, Hikvision attendance integration, and AI-powered task summarization.

EV Charging CMS & App [🔗](#)

- **CMS & Charging:** Designed the backend for the GÜNSEL EV charging station management system using **WebSockets** and **OCPP 1.6** for real-time station communication.
- Designed scalable state synchronization for station communication.
- Built real-time monitoring dashboards using WebSockets.

Personal Projects

Masata App | Enterprise Church Management SaaS [🔗](#)

- **Comprehensive Management Suite:** Developed a centralized multi-tenant platform used by **New Jerusalem Church (Rwanda)** to manage 7+ core operational modules: **Members, Events, Appointments, Sermons, Groups, Departments, and Fixed Assets.**

- **Headless Integration Architecture:** Engineered a reusable integration layer using **Next.js** and **TanStack Query**, enabling the Masata platform to power the dynamic content of multiple external production sites:
 - **NJC Rwanda** [🔗](#) : – Full operational management and media archives.
 - **NJC Luxembourg** [🔗](#) : – International organizational presence.
 - **Professional Portfolio** [🔗](#) : – Integration for high-level leadership branding.
 - **Jacob's Fountain Mission** [🔗](#) : [🔗](#) – Mission-driven content management.
- **Modern Frontend Stack:** Utilized **Zustand** for complex client-side state and **shadcn/UI with Tailwind CSS** for a high-performance, accessible administrative interface.
- **Scalable Backend:** Architected with **NestJS, PostgreSQL, and Prisma**, utilizing **Redis** for caching and **AWS S3** for large-scale media asset management.

Farm Management System [🔗](#)

Developed a full-stack farm platform with Next.js, featuring role-based dashboards, production analytics (milk/eggs), and livestock management UI.

NEU Student Link Ecosystem [🔗](#)

- **High-Traffic Services:** Led the backend for a campus-wide application serving thousands of students, integrating school bus tracking, sports venue booking, and student information systems.
- **Stack:** Node.js, MySQL, Next.js, and React Native.