

Kristian Ziu

Backend Software Engineer

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Backend Software Engineer | .NET 8 | Azure | REST APIs | Microservices | AI & Data Pipelines

Detail-oriented software engineer with 3+ years of experience in backend development using .NET and Azure. Proven track record in building APIs, integrating AI document workflows, and developing data pipelines for enterprise clients. Skilled in microservices, API security, and system integration. Comfortable supporting frontend tasks and cross-functional collaboration.

Work Experience

Software Engineer (Backend-Focused Fullstack Developer)

Mar 2022 - Present

Binnova srl benefit | Milan, Italy

Developed backend APIs, data pipelines, and AI integrations with .NET and Azure. Managed small projects, built dashboards, and supported clients in manufacturing, energy, and construction sectors. Contributed to frontend interfaces when needed.

- Developed backend APIs and microservices in .NET 8 for systems serving 3,000+ suppliers, invoices, and tender documents.
- Integrated Azure Document Intelligence and Azure OpenAI into workflows for automated data extraction and summarization.
- Built and maintained data pipelines syncing systems via SQL, MongoDB, and SFTP.
- Designed tender management backend with document analysis, census tools, and compliance tracking.
- Created billing dashboards with invoice control and partner reporting for an energy client.
- Led development of small-scale projects independently, from analysis to release.
- Participated in AI model training using 700+ annotated documents for OCR and structured data extraction.
- Supported UI development with React, AngularJS, and Next.js when needed.
- Managed Azure resources: App Service, Functions, Insights, and CI/CD pipelines.
- Regularly engaged with clients for requirement gathering, demos, and post-release support.

Projects

Hyperspectroscopy and High-Speed Camera Control Interface

Jan 2024 - Present

Python-based GUI to control a Photron High-Speed Camera and synchronize it with a FireFly Infrared Laser for nanoparticle research at the University of Notre Dame.

- Developed multithreaded camera control software
- Implemented real-time data visualization with Matplotlib
- Managed hyperspectral imaging data plotting

AI Data Extraction and Summarization API

Sep 2024 - Present

Developed an AI-powered API using Azure Document Intelligence and Azure OpenAI to extract structured data using custom models, generate document summaries, find discrepancies in order-billing pairs or standard LLM querying

Core Skills

Backend Development: Microservices architecture, Entity Framework, ASP.NET Core, REST APIs, .NET

Frontend (Secondary): React, AngularJS, Next.js, Vite, Tailwind CSS, Bootstrap, Shadcn, CSS3, HTML5, Azure App Service

Cloud Platforms: Azure App Service, Azure Functions, Azure Document Intelligence, Azure OpenAI, Application Insights, Azure Cost Management, Vercel

Data and Integration: MS SQL Server, MongoDB, PostgreSQL, Redis, CosmosDB, SFTP integrations, ERP connectivity

DevOps & Tools: Git, Docker, CI/CD pipelines, xUnit, Moq, FluentValidation, MediaTR

Programming Languages: C#, JavaScript, TypeScript, Python

AI/ML & Data Processing: Pandas, Matplotlib, OCR solutions, LLM summarization, Dataset preparation

Database Design: Data modeling, Schema design, Entity Framework migrations

Office & Productivity: Microsoft Office Suite (Word, Excel, PowerPoint), Adobe Lightroom

General Technical Skills: Software Development Lifecycle (SDLC), Version Control, Code Reviews, Unit Testing, Documentation, API Security

Soft Skills: Clear Technical Communication, Client Collaboration, Documentation Writing, Time Management, QA and UAT Support, Agile Development, Problem Solving and Debugging, Project Ownership, Requirements Analysis, Backend Solution Design

Education

Università degli Studi di Verona (Not Completed)

Sep 2020 - Oct 2021

Bachelor Applied Mathematics

IIS L. Cerebotani – Lonato, Italy

Jun 2019

Diploma Computer Science and Telecommunications

Languages

English (Fluent), Italian (Native), Albanian (Basic)