



# IDRISSA MAIGA

Full Stack Engineer | Software Developer | AI Solutions Architect



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## Professional Summary

Results-driven Full Stack Software Developer with 5+ years of hands-on experience building scalable, high-performance web applications and AI-powered solutions. Expert in Java ecosystem, MERN/MEVN stack, React Native mobile development, and cloud-native architectures. Proven track record delivering enterprise-grade applications for EU institutions and innovation platforms. Specialized in microservices architecture, RESTful API design, real-time data processing, and AI/ML integration. Strong foundation in algorithmic problem-solving, system design, and agile development methodologies. Currently pursuing B.Sc. in Computer Science Engineering (GPA: 8.7/10) while maintaining active development portfolio at [creator.iditechs.com](https://creator.iditechs.com). Multilingual professional fluent in English, French, and Bambara.

## Technical Skills

**Programming Languages:** Java (Advanced: OOP, Collections, Streams, Concurrency), JavaScript/ES6+, TypeScript, Python, SQL, C#, Bambara

**Backend Frameworks:** Spring Boot, Spring MVC, Hibernate/JPA, Express.js, Node.js, .NET Core, ASP.NET, Laravel (PHP)

**Frontend Technologies:** React.js, Next.js, Vue.js, React Native, HTML5, CSS3, Tailwind CSS, Bootstrap, Material-UI, Redux, Context API

**API Development:** RESTful APIs, GraphQL, WebSockets, OAuth 2.0, JWT Authentication, API Gateway, Microservices Architecture

**Databases:** MySQL, PostgreSQL, MongoDB, Firebase Firestore, Redis, SQL Server, Database Design, Query Optimization

**Cloud & DevOps:** AWS (EC2, S3, Lambda, RDS), Google Cloud Platform, Firebase, Docker, Kubernetes, CI/CD Pipelines, GitHub Actions

**Development Tools:** Git/GitHub, Maven, Gradle, npm/yarn, Webpack, IntelliJ IDEA, VS Code, Postman, Figma

**AI/ML Technologies:** Mistral AI, DeepSeek R1, OpenAI GPT, NLP Models, TensorFlow, AI Integration, Prompt Engineering

**Testing:** JUnit, Jest, React Testing Library, Selenium, Integration Testing, Unit Testing, Test-Driven Development (TDD)

**Methodologies:** Agile/Scrum, Object-Oriented Design, SOLID Principles, Design Patterns, Microservices, Event-Driven Architecture

**Soft Skills:** Problem-solving, Technical Communication, Team Leadership, Cross-functional Collaboration, Adaptability

**Languages:** English (Fluent), French (Fluent), Bambara (Native), Hungarian (Intermediate - A2)

## Professional Experience

### Software Developer Intern

Aug 2025 – Present

4D Consulting Kft., Budapest, Hungary (Hybrid)

- Leading development of INDUSAC Innovation Ecosystem Matchmaking Platform connecting startups, investors, and research institutions across European innovation markets
- Architecting scalable microservices backend using Spring Boot with PostgreSQL, handling 10,000+ user profiles and implementing intelligent matching algorithms based on industry, funding stage, and strategic objectives
- Developing responsive React.js frontend with TypeScript, real-time notifications, advanced filtering, and WebSocket-based messaging system
- Implementing RESTful APIs, third-party integrations for company verification and financial data, achieving sub-200ms response times
- Building comprehensive testing strategy with JUnit and Jest, maintaining 85%+ code coverage

- Collaborating with product managers, UX designers, and EU stakeholders in agile development cycles
- Optimizing application performance with Redis caching and database query optimization

## Full Stack Engineer

Jan 2025 – Jul 2025

European Innovation Council and SMEs Executive Agency (EISMEA), Hungary

- Developed [horizoneurope.io](#), AI-powered EU funding guidance platform serving 5,000+ monthly users
- Engineered smart context management engine processing 500+ funding opportunities with NLP-based categorization
- Built document processing system for automated parsing of EU funding calls and application templates
- Implemented high-speed web scrapers with Python and Scrapy, aggregating real-time data from 15+ EU sources
- Designed microservices architecture using Node.js and Express.js, achieving API response times under 2ms through Redis caching
- Created responsive UI with React.js and Tailwind CSS, ensuring WCAG 2.1 AA accessibility compliance
- Integrated OpenAI GPT-4 for intelligent funding matching and personalized application guidance
- Deployed cloud infrastructure on AWS using Docker containers with auto-scaling and 99.95% availability
- Established CI/CD pipelines with GitHub Actions, reducing deployment time by 70%

## Key Projects & Research

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### INDUSAC Innovation Ecosystem Matchmaking Platform

2025

Spring Boot, PostgreSQL, React.js, TypeScript, AWS, Docker | 4D Consulting Kft.

- Developed comprehensive B2B matchmaking platform connecting 1,000+ startups, investors, accelerators, and corporate partners
- Implemented sophisticated matching algorithm considering 20+ parameters including industry vertical, funding stage, and location
- Built real-time messaging system using WebSockets for instant communication between matched parties
- Created admin dashboard with analytics showing platform usage, successful matches, and funding metrics
- Integrated Stripe payment processing for premium features and subscription management
- Designed RESTful API supporting mobile app integration and third-party developer access

### Gmail AI Assistance - Intelligent Email Management

2025

Next.js, TypeScript, Google OAuth, DeepSeek R1 API, Mistral AI, Tailwind CSS

- Engineered AI-powered Gmail management system automating email categorization, priority detection, and response generation
- Implemented secure Google OAuth 2.0 authentication with Gmail API integration
- Integrated DeepSeek R1 and Mistral AI for NLP, sentiment analysis, and personalized email composition
- Developed smart categorization engine using ML to classify emails based on content and sender patterns
- Built batch processing handling 1,000+ emails with optimized API calls and intelligent rate limiting
- Created responsive dashboard showing email analytics and AI-generated summaries
- Achieved 90% reduction in email processing time compared to manual workflows

### Filmu - Video-on-Demand Streaming Platform

2023–2024

React Native, Node.js, Express.js, MongoDB, AWS S3, Redis

- Developed VOD platform with 10,000+ video library serving 500+ concurrent users with 99.8% uptime
- Implemented JWT authentication with role-based access control (RBAC) for users, creators, and administrators
- Built recommendation engine using collaborative filtering, increasing user engagement by 45%
- Designed video streaming infrastructure with adaptive bitrate (HLS/DASH) and CDN integration
- Created CMS enabling creators to upload, edit, and monetize content with analytics dashboard
- Integrated Stripe for subscription management, pay-per-view transactions, and creator payouts
- Developed offline viewing capability with encrypted local storage for premium users
- Built cross-platform mobile app (iOS/Android) with 95% code reusability

### SignalApp - Real-Time Trading Signals Platform

2024

React Native, Firebase, Google OAuth, WebSockets, Financial APIs

- Created trading signal app aggregating data from Alpha Vantage and Yahoo Finance APIs
- Implemented Google OAuth authentication with biometric login support
- Built real-time notification system using Firebase Cloud Messaging delivering instant alerts to 200+ users

- Developed customizable watchlist and portfolio tracking with real-time P&L calculations
- Integrated technical indicators (RSI, MACD, Moving Averages) for automated signal generation
- Designed chart visualization using Victory Native for price movements and volumes
- Implemented offline data persistence with SQLite for seamless user experience

### Kouma - AI-Powered Real-Time Chat Platform

2024–2025

*Node.js, React.js, Socket.io, MongoDB, OpenAI API, Redis*

- Developed real-time chat application supporting 1:1 messaging, group chats, and AI assistant integration
- Engineered WebSocket messaging using Socket.io, handling 500+ concurrent connections with sub-50ms latency
- Integrated AI chatbot using OpenAI GPT for automated support, translation, and smart replies
- Implemented end-to-end encryption ensuring GDPR compliance and data privacy
- Built rich media sharing (images, videos, documents, voice) with AWS S3 storage
- Developed admin moderation tools with content filtering and audit logging
- Created scalable architecture using Redis for session management and message queuing
- Achieved 90%+ code coverage with Jest and Supertest

### Family Tree Web Application

2023

*Orchard CMS, .NET Core, ASP.NET MVC, SQL Server, D3.js*

- Built family tree management system with drag-and-drop interface for managing relationships
- Leveraged Orchard Core CMS for content management, authentication, and role-based permissions
- Implemented interactive visualization using D3.js with zoom, pan, and collapse/expand functionality
- Designed relational database schema for complex family relationships and biographical data
- Created export functionality generating printable trees and GEDCOM files for genealogy software

## Education

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**Óbuda University (Óbudai Egyetem)**, Budapest, Hungary

*Bachelor of Science in Computer Science Engineering*

*Sep 2022 – Expected Feb 2027*

GPA: 8.7/10 | Coursework: Data Structures, Algorithms, Database Systems, Web Technologies, Software Engineering

Activities: Web Development Club, Competitive Programming, University Running Team, International Student Mentor

**Lycée Monseigneur Jean Marie Cissé**, Bamako, Mali

*High School Diploma (Baccalauréat)*

*Graduated 2022*

GPA: 9.04/10 | Focus: Mathematics and Physical Sciences

## Certifications & Achievements

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- **HÖÖK SHMN Mentor Camp 2025** – Hungarian Student Leadership & Mentorship Program *Jul 2025*
- **INDUSAC Co-Creation Project Certificate** – Innovation Ecosystem Development, 4D Consulting Kft. *Jul 2025*
- **Spring Boot and Microservices Development** – Comprehensive Backend Architecture, Udemy *2024*
- **Full-Stack Web Development with JavaScript** – MERN Stack Specialization, Coursera *2023*
- **ASP.NET Core with Orchard Core CMS** – Advanced .NET Development, Lombiq Technologies *2023*
- **Kennedy Lugar YES Program Scholar** – Cultural Exchange Program, USA State Department *2018–2019*
- **Cisco Networking Certification (CCNA)** – Network Fundamentals, Orange Mali Staff Training *2018*

*Portfolio: [creator.iditechs.com](https://creator.iditechs.com) | References available upon request*