

# Richard Karanu

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## Full Stack Software Engineer

Experienced **Full Stack Software Engineer** with 4+ years in **Java, Typescript** and **Python** ecosystems, specializing in enterprise frameworks like **React, Spring Boot, Node Js and Django**. Possess strong skills in system architecture and containerization that help technology companies deliver scalable, production-ready solutions. Demonstrated expertise in modernizing applications through **Docker** while actively expanding knowledge in mobile development and **Kubernetes**. Passionate about leveraging artificial intelligence and contributing to open-source projects that drive innovation.

## TECHNICAL SKILLS

**Proficient in:** Python, Java, Typescript, SQL, Spring Boot, Django, React.js, Docker, AWS, Azure, NoSQL, Linux  
**Familiar with:** Node.js, Microservices, Rest APIs, Kafka, Machine Learning & AI, Kubernetes, CI/CD, GitHub Actions, Agile, Swagger, Bash Scripting  
**Currently Learning:** Go, React-Native, Agentic Computing

## EXPERIENCE

**Kreatoors AI (HR AI Advocacy)**  
*Full Stack Software Engineer*

**Germany, Remote - Contract**  
Jan 2024 - Current

- Architected and implemented secure multi-tenant API infrastructure using Node.js and Express, achieving 99.9% uptime and reducing unauthorized access attempts
- Optimized API performance through efficient MongoDB indexing and caching strategies, reducing average response time from 800ms to 200ms while maintaining scalability
- Led onboarding and mentoring of 3 new engineers while collaborating with CTO on feature implementations, achieving 90% sprint completion rate
- Established comprehensive API documentation and standardized coding practices, resulting in 60% faster onboarding and 50% improvement in component reusability across the platform

**Tech Stack:** Node.js, TypeScript, Next.js, Express, MongoDB, OpenAI API, AWS

**Complasset (FinTech/Compliance)**  
*Full Stack Software Engineer*

**Spain, Remote - Contract**  
Jun 2024 - Nov 2024

- Architected and led development of AI-powered compliance platform from concept to production, reducing document review time by 20x for financial institutions
- Implemented Azure Cognitive Services pipeline with custom AI agents, processing 1,000+ pages daily with 95% accuracy in MNPI detection, validated through user testing
- Engineered real-time news verification system using Perigon API, reducing false positives by 40% and improving detection confidence by 60%
- Designed secure document handling system with end-to-end encryption, achieving SOC2 compliance requirements and zero security incidents
- Established automated testing pipeline achieving 90% code coverage, resulting in zero critical bugs in production deployment

**Tech Skills:** Python (Django, FastAPI), React, Typescript, NestJS, Langgraph, Azure Cognitive Services, PostgreSQL, Docker, JWT Authentication, Perigon API, Azure Cloud Services, OpenAI API

**Miksi AI (AI as a Service)**  
*Full Stack Software Engineer*

**Zagreb, Croatia, Remote - Contract**  
Jun 2023 - Apr 2024

- Engineered secure backend services for AI agents using JWT authentication, achieving **zero** security incidents across **100,000+** API requests over 6 months
- Designed and deployed automated CI/CD pipelines using GitHub Actions and Docker, reducing deployment time from **45** minutes to **8** minutes with **100%** deployment success rate
- Optimized cloud infrastructure by implementing automated scaling and resource cleanup, cutting monthly Azure costs by **35%** while maintaining **99.9%** service uptime
- Led a cross-functional team of 3 (2 developers, 1 data scientist), achieving 85% sprint completion rate and reducing bug reports by 40% through systematic code reviews
- Developed Miksi AI SDK (published on PyPI) that simplified BI integrations, reaching 200+ downloads and maintaining zero critical bugs in production
- Created context-aware AI agents for business intelligence tasks, achieving **90%** accuracy in SQL query generation across **100+** test cases

- Managed end-to-end project lifecycle using Jira and GitHub Issues, delivering 4 major releases with 95% client satisfaction rating
- Spearheaded weekly knowledge-sharing sessions with the development team, resulting in 30% faster onboarding of new team members and improved cross-team collaboration
- Mentored 2 junior developers in AI integration practices, leading to successful feature additions within project timeline

**Tech Skills:** Python,Django, Azure, Langgraph, LangSmith,FastAPI Microservices, Github Actions,Celery,AzureOpenAI, OpenAI API

**Dowell Research** (HR and CRM)  
**Backend Engineer**

**UK - Remote - Contract**  
Oct 2022 - May 2023

- Developed RESTful APIs and WebSocket connections handling 1,000+ concurrent users, reducing average response time from 800ms to 200ms
- Optimized PostgreSQL database performance through strategic indexing, reducing query times by 60% for endpoints handling 10,000+ daily requests
- Implemented JWT authentication system processing 50,000+ daily requests with zero reported security breaches over 8 months
- Built real-time communication system using WebSockets and Django Channels, maintaining 99.9% uptime for 5,000+ simultaneous connections
- Created comprehensive API documentation using Swagger UI, decreasing integration support tickets by 70% month-over-month
- Bridged communication gaps between remote development teams across three time zones, establishing a documentation-first approach that reduced project clarification meetings by 50%

**Tech Skills:** Python, Django,Docker, Swagger UI,Channels,Celery,DjangoRestFramework, WebSockets, Redis, Daphne, HTMX

**Freelance**  
*Freelance Software Engineer*

**Remote - Freelance**  
May 2020 – Aug 2022

- Led end-to-end development of 8+ custom applications for diverse clients, maintaining 95% client satisfaction rate and 100% on-time delivery across all projects
- Architected and deployed scalable solutions using React, Node.js, and Python, reducing client operational costs and improving process efficiency
- Established autonomous project management framework, handling requirements gathering to deployment independently while maintaining zero scope creep across 15+ projects
- Implemented data-driven solutions through custom dashboards and analytics tools, enabling 3x faster decision-making for clients and achieving 90% user adoption rate

EDUCATION

**Jomo Kenyatta University of Technology**  
Bachelor of Science in Computer Technology

Juja, Kenya

CERTIFICATIONS

**API Security**  
API Sec University

[Link](#)  
Nov 2024

**Docker**  
LinkedIn Learning

[Link](#)  
Nov 2024

LANGUAGES & INTERESTS

LANGUAGES

English C2  
Swahili , Native

INTERESTS & HOBBIES

Deep Learning,Research in AI,Open Source, Soccer, Cycling,Swimming