

Abdullah Mujahid

Senior Software Engineer

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SUMMARY

Senior Software Engineer with 8+ years of experience architecting robust, scalable web applications and leading development teams to deliver high-performance solutions. Strong expertise in Python, Django, React, and cloud infrastructure with a proven track record in designing microservice architectures and implementing performance optimisations. Demonstrated success in solving complex technical challenges across healthcare, fintech, and AI domains while mentoring junior developers and translating business requirements into elegant technical solutions.

TECHNICAL SKILLS

- Python • JavaScript • Django • React.js • Next.js • Agile • FAST API • PostgreSQL • MYSQL/MariaDB • Redis • MongoDB • Sentry • SonarQube • Design Patterns • TDD • Jira • Clickup • Github • Docker • Micro Frontend • Backend for Frontend • Amazon SES • Celery • Amazon Bedrock • CI/CD • Nginx • Ether.js • Web3.py • Abstract Factory Pattern • Apache Kafka • Microservices • MageAI • DuckDB • Service Mesh • Event-Driven Architecture • ETL • Distributed Systems • Apache Nifi • Azure • AWS • Wagmi • MCP • Elasticsearch

SOFT SKILLS

- Project Management • Team Leadership • Narrative Collaboration • Problem Solving • Time Management • Agile • Client Communication • Conflict Resolution • Resource Planning • Mentorship & Coaching • Technical Writing • Cross-functional Collaboration

EXPERIENCE

Astel Ventures, United Arab Emirates — Senior Software Engineer

May 2025 - PRESENT

- Architected and developed a comprehensive investment platform serving thousands of users, implementing scalable Django backend APIs and Vue.js frontend components that improved user engagement by 25%
- Led full-stack development initiatives, including code reviews, project management, and technical architecture decisions, reducing development cycle time by 30% through streamlined processes
- Integrated multiple third-party services, including Elasticsearch for advanced search capabilities, RapidAPI and ScraperAPI for data aggregation, and Stripe for payment processing, enhancing platform functionality
- Optimized platform performance using AWS cloud infrastructure, Digital Ocean hosting, and CloudFront CDN, achieving 99.9% uptime and 40% faster page load times
- Implemented automated data collection and processing pipelines using BrightData and EmailEngine, enabling real-time investment insights and user notifications
- Established comprehensive project management workflows using card-based systems, improving team coordination and delivery timelines by 20%
- Configured monitoring and communication systems with Slack integration, ensuring rapid incident response and seamless team collaboration
- Implemented multi-LLM architecture for intelligent deal analysis, pitch deck extraction, and automated investor outreach content generation

Skills: Team Leadership, Project Management, Code Review, Django, Vue.js, AWS, Digital Ocean, CloudFront, Elasticsearch, RapidAPI,

Scrapers API, BrightData, EmailEngine, Slack Integration, Stripe, DevOps, Investment Platform Development, API Architecture, Performance Optimisation..

Vada Innovation, UK — Senior Software Engineer

October 2024 - May 2025

- Architected and optimised data pipelines that reduced ETL processing time by 30% and enhanced data accuracy by 20%
- Designed a scalable analytics system processing 200K daily events with consistent response times, enabling new features that improved user engagement metrics by 15%
- Implemented Redis caching solutions that improved application response times by 40% and reduced database load during peak traffic by 25%
- Established coding standards, design patterns, and review processes that decreased critical bugs by 35% and improved maintainability across the codebase
- Architected and implemented cloud infrastructure using Docker and Kubernetes to support highly scalable deployment architecture
- Mentored junior developers through code reviews and architectural guidance, improving overall team code quality and technical capabilities.

Skills: Team Leadership, Resource Planning, Performance Management, Technical Mentoring, Strategic Planning, Capacity Planning, Process Optimization, Cross-functional Communication, Technical Architecture, Data Engineering, Docker, Kubernetes, Redis, Python, ETL pipelines, CI/CD, Cloud Architecture, PostgreSQL.

Crocus Zone, USA — Senior Software Engineer

Feb 2023 - October 2024

- Designed and implemented the transition to a microservices architecture using Django and FastAPI that improved deployment flexibility by 30% and reduced system dependencies
- Architected data processing pipelines with Apache Kafka that handled 2x traffic growth while maintaining consistent performance under load
- Implemented monitoring and observability solutions that improved incident detection, reducing average response time from 40 to 15 minutes
- Designed and implemented caching and load-balancing strategies that reduced database load by 50% during peak usage periods
- Established CI/CD pipelines that shortened deployment cycles from weekly to twice-weekly releases while maintaining service reliability
- Led technical discussions and architectural design reviews to ensure alignment with business requirements and technical standards.

Skills: Django, FastAPI, Apache Kafka, Microservices, Service Mesh, Redis, Load Balancing, CI/CD, Team Building, Process Optimization, Technical Mentorship

Carte Blanche, USA — Senior Software Engineer

July 2021 - Jan 2023

- Architected microservices using Django/FastAPI that improved system reliability by 45% and supported 100K+ daily active users across multiple products.
- Pioneered the company's first AI initiatives, implementing solutions using LangGraph and AWS Bedrock that transformed workflows for medical and educational clients.
- Led a team of 5 developers in building AI-powered features that reduced manual work by 33% and improved data processing accuracy by 25%.
- Implemented RabbitMQ for asynchronous processing, improving throughput & better handling traffic spikes.
- Refactored frontend that cut load times by 40% and helped increase conversion rates by 12%.

- Enhanced payment processing with Stripe, implementing validation routines that reduced fraudulent transactions.
- Trained engineering teams on AI technologies and successfully delivered projects using LangGraph, CrewAI, and AWS Bedrock for medical and educational niches.

Skills: Django, FastAPI, React, RabbitMQ, AWS Bedrock, LangGraph, CrewAI, Stripe API, Technical Project Leadership, Team Mentoring, AI Implementation

Global Group One, New York, USA — Software Engineer

July 2019 - June 2021

- Engineered a Django-based backend infrastructure that scaled to support 50K+ daily active users, resulting in 95% uptime during company growth.
- Implemented database and query optimizations that improved page load times and API response times.
- Implemented React.js frontend optimizations that reduced bundle size by 65% and decreased initial load time by 3.2 seconds, directly contributing to an improvement in the conversion rate.
- Helped configure AWS infrastructure with auto-scaling capabilities that better managed traffic fluctuations while controlling costs.
- Contributed to improving agile practices, helping increase on-time feature delivery from 65% to 85%.
- Created technical documentation that reduced onboarding time for new developers and provided clearer system architecture references.

Skills: Django, React.js, AWS, PostgreSQL, RESTful APIs, Git, Agile Development, System Architecture, Technical Documentation

deSwot, Beirut, Lebanon — Full Stack Software Engineer

September 2017 - June 2019

- Developed and deployed a Node.js/Express.js backend that reduced API response times by 40%, resulting in improved user engagement metrics and 25% higher retention rates.
- Engineered responsive React.js interfaces from Figma designs that decreased bounce rates by 30% and increased mobile user conversion by 22% across all target demographics.
- Optimized MongoDB schemas and implemented advanced query patterns that reduced database load by 45% and cut cloud infrastructure costs by \$2,000 monthly.
- Built and integrated Redux state management solution that eliminated 90% of UI-related bugs and accelerated feature development time by 35%, allowing the team to deliver product updates ahead of schedule.

Skills: Node.js, Express.js, React.js, Redux, MongoDB, RESTful APIs.

BMJ Consultant, Ireland — Associate Software Engineer

July 2016 - August 2017

- Contributed to the development of a farm management system using Node.js, Express, and MongoDB that helped streamline operations for 600+ agricultural businesses.
- Assisted in implementing API endpoints that connected various system components, improving data flow and user experience for farmers.
- Collaborated with senior developers to optimise database queries, helping decrease page load times by 35% for frequently accessed features.
- Participated in client requirements gathering sessions, documenting key user stories that guided feature implementation and prioritisation.

Skills: Node.js, Express, MongoDB, RESTful APIs, Git

EDUCATION

University of Management & Technology — Bachelor of Computer Science

- CGPA: 3.57/4.0 | Rector's Award for a perfect GPA of 4.0 in a semester.

PROJECTS

AIRA (Investor Startup Intelligence Platform) | Senior Engineer & Technical Architect:

- Architected an AI-powered investor intelligence platform from MVP to production, enabling startups to discover and connect with relevant investors at scale.
- Designed and implemented a multi-LLM architecture with per-tenant configuration, enabling intelligent deal analysis, pitch deck extraction, and personalized outreach content generation.
- Built advanced investor search system using Elasticsearch with complex filtering by investment criteria, ticket size, geography, and industry, reducing investor discovery time by 60%.
- Engineered automated deal analysis pipeline that processes pitch decks through multi-stage LLM evaluation, scoring Market Need, Innovation, Defensibility, Scalability, Traction, and Team with comprehensive reporting.
- Developed AI-powered contact personalization system generating career-based, manager-based, and regional insights for email outreach, improving response rates.
- Implemented multi-tenant architecture with whitelabel support, allowing per-customer LLM vendor configuration and domain customisation

Tech Used: Django, Vue.js, PostgreSQL, Elasticsearch, Redis, Celery, Docker, Claude, OpenAI, Gemini, Perplexity AI, ReplyIO API, Tailwind CSS, Pinia, shadcn-vue, PostGIS, Django REST Framework

Mitra AI | Lead Engineer & Technical Architect:

- Architected and developed an AI-powered relationship mentoring platform.
- Designed and implemented real-time voice AI agents using Python and LiveKit Agents Framework, integrating OpenAI GPT-4 Speechmatics/Deepgram STT, and ElevenLabs TTS for natural conversational experiences.
- Built a speaker diarization system that accurately identifies multiple participants in couples sessions, enabling balanced AI feedback to both partners with 92%+ speaker identification accuracy.
- Implemented encryption for all conversation transcripts, ensuring HIPAA-compliant privacy standards and zero human access to sensitive data.
- Developed a comprehensive session management system with AI-generated summaries, encrypted transcript storage, and progress tracking across multiple mentoring sessions.

Tech Used: TypeScript, React, Node.js, FastAPI, LiveKit, OpenAI, PostgreSQL, Redis, Docker, AES-256-GCM Encryption, Speechmatics, ElevenLabs, Google Cloud Run, WebRTC, React Native

RegNxt | Technical Lead & Engineering Manager:

- Led a team of 6 engineers to build a regulatory reporting platform that reduced compliance reporting time by 40% for financial institutions.
- Architected scalable data management systems with version control that passed all financial regulatory audits.
- Implemented Excel integration features that eliminated 70% of manual data entry for client teams.
- Directed the refactoring initiative that reduced bug rates by 35% and accelerated feature delivery.
- Established a technical mentoring program that improved code quality and reduced onboarding time by 60%.
- Mentored team members through code reviews and architectural guidance.

Tech Used: Django, React, TypeScript, Azure Cloud, Azure API Gateway, PostgreSQL, MageAI, Firebase, Tailwind CSS, and Docker

Veterinary AI | Lead Engineer:

- Led the technical vision and development of an innovative veterinary SaaS platform that reduced diagnostic time by 40% for over 50 veterinary practices.
- Architected a SaaS platform for veterinary practices using microservices architecture
- Developed custom LLM solutions that accurately analyzed 10,000+ medical records per day, identifying potential health issues with 87% accuracy.
- Engineered sophisticated AI workflows using LangGraph that automated routine diagnoses, allowing veterinarians to focus on complex cases.
- Integrated LangGraph for AI workflows and Pinecone for vector database storage.
- Established DevOps practices and CI/CD pipelines that reduced deployment time from days to hours while maintaining system reliability.

Tech Used: Django, React.js, FastAPI, LangGraph, Pinecone, Stripe, AWS, PostgreSQL, Redis, Docker, OpenAI API, Custom LLMs.

SI Paradigm | Technical Lead & Engineering Manager:

- Led a team of 7 developers to deliver a HIPAA-compliant medical laboratory management platform that reduced lab processing time by 30%
- Established development roadmap and architecture decisions that enabled successful integration with 5 third-party laboratory systems
- Implemented team performance metrics and code review processes that decreased critical bugs by 45% and improved release predictability
- Directed the implementation of Redis caching strategy that improved system response times by 45% during peak laboratory hours
- Managed client relationships and technical requirements gathering, resulting in 100% client retention and 3 referral clients
- Oversaw cross-platform mobile development, ensuring consistent performance across iOS and Android devices

Tech Used: Django, Django REST Framework, PostgreSQL, Redis, Docker, Ionic React.js, TypeScript, AWS, Team Leadership, Technical Planning, Cross-functional Collaboration, Performance Optimization, Client Relationship Management, Technical Architecture, Mobile Development Strategy, Resource Allocation

Hirecinch | Senior Engineer & Product Manager:

- Led product strategy for an applicant tracking system while managing a team of 4 developers through a major platform refactoring initiative
- Designed and implemented the product roadmap based on user research that increased client adoption by 35% within six months
- Prioritised feature development using data-driven metrics, reducing development cycles by 40% while increasing user satisfaction scores
- Engineered a Resume Parser microservice that automated candidate data extraction with 85% accuracy, saving recruiters 20+ hours weekly
- Built custom organizational career pages that improved application completion rates by 45% across client companies
- Implemented an integrated billing system with Stripe API that increased revenue collection efficiency by 30% and reduced payment failures

Tech Used: Django, React.js, Next.js, Node.js, AWS, PostgreSQL, MUI, Tailwind, Redis, Product Strategy, User Research, Feature Prioritization, Technical Leadership, Microservice Architecture, Team Management, Sprint Planning, Stakeholder Communication

Deals 4 Autos - Car BDC Service | Lead Developer & Product Manager:

- Led the successful transformation of a legacy car dealership platform from PHP to a modern React/Django architecture that increased dealership efficiency by 35%
- Managed a team of 5 developers through comprehensive platform redesign while maintaining continuous service for 40+ active dealerships
- Designed and implemented an integrated payment system with Wells Fargo, Stripe and PayPal that processed over \$2M in monthly transactions with 99.8% reliability
- Created customizable analytics dashboards that provided dealerships with critical insights, increasing average inventory turnover by 22%
- Orchestrated infrastructure migration to AWS that improved system reliability from 94% to 99.5% uptime while reducing hosting costs by 30%

Tech Used: Django, React.js, WordPress, cPanel, PostgreSQL, AWS, Technical Leadership, Product Strategy, Payment Systems Integration, Legacy System Modernization, Cloud Migration, Team Management

Public Editor | Backend & AI Engineer:

- Architected a secure authentication system with multi-factor authentication that improved account security by 65% while maintaining seamless user experience
- Implemented a comprehensive email communication system using Amazon SES that delivered 99.8% of transactional emails with robust tracking and analytics
- Designed and deployed a Stripe subscription management system that increased payment success rates by 28% and reduced billing support tickets by 40%
- Integrated Anthropic Claude 3.5 to power automated content analysis, reducing manual content review time by 75% while maintaining quality standards
- Developed sophisticated NLP solutions for article scraping and semantic analysis that processed 10,000+ news articles daily with 92% accuracy.

Tech Used: Django, Stripe, Amazon SES, PostgreSQL, Redis, Anthropic Claude 3.5, Python (NLP libraries).

LKSY | Full Stack Developer:

- Developed an interactive learning platform that enabled 1,500+ students to complete coding exercises using Scratch, increasing average lesson completion rates by 45%.
- Engineered a robust submission system using AWS S3 that securely handled 20,000+ monthly task submissions while maintaining 99.9% availability.
- Implemented automated testing with Whisker framework on AWS Lambda that provided immediate feedback to students, improving learning outcomes by 30%.
- Created a scalable background processing system with Redis and Celery that managed assignment grading and progress tracking with minimal latency.
- Integrated analytics capabilities that provided educators with detailed student performance metrics, helping identify struggling students 40% faster.

Tech Used: Django, Heroku, AWS, Celery, Redis, Serverless Architecture, Asynchronous Processing