

# RAAD KASEM

## AI-focused Senior Software Engineer

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### PROFESSIONAL SUMMARY

AI-focused Senior Software Engineer & Team Lead with 6+ years of experience architecting backend systems and building production-ready AI/LLM-powered solutions. Proven expertise in implementing LangChain, LangGraph, FastAPI, RAG pipelines, and vector databases (Qdrant) to automate decision-making and optimize business workflows. Successfully delivered scalable platforms in healthcare, automation, and SaaS—leading cross-functional teams and translating business goals into technical solutions. Passionate about bridging the gap between stakeholders and engineering teams, with a strong analytical mindset, hands-on ERP/database experience (MySQL, Redis), and deep understanding of AI toolchains (OpenAI, Claude, vLLM). Looking to apply my experience in AI agent design and system integration to drive operational efficiency and innovation.

### TECHNICAL SKILLS

#### Programming Languages & Frameworks:

Python (LangChain, LangGraph, FastAPI, AI/ML, LLMs, Fine-tuning, RAG), PHP (Laravel, WP), Java (Spring Boot- Basics)

#### Databases:

MySQL, Redis, Qdrant (Vector Database)

#### Cloud Platforms:

AWS, DigitalOcean

#### Tools & Technologies:

Git, Gitlab, Github, Docker, RESTful APIs, GraphQL, Microservices, CI/CD, Jira, Confluence, Linux/Mac, Horizon, Filament, OpenAI, Anthropic Claude, Craft (Yii2), LiveWire, HTML5, CSS3, Automation N8N, vLLM, Transformers, Fine0tune Unsloth, LLaMA-Factory, LMStudio

#### Development Practices:

Agile, SOLID Principles, Debugging, API Integration, Prompt Engineering, DevOps

#### Leadership & Management:

Team Leadership, Project Management, Agile Methodologies, Mentoring, Time Management, Technical Supervision, Code Review

### PROFESSIONAL EXPERIENCE

#### Team Lead

**CanGuru** | Melbourne, Australia (Remote) | October 2022 - Present

- Lead and manage a team of 5 developers for key web application projects, including code review for team members
- Implement Agile methodologies, conducting daily standups and sprint planning sessions
- Design and develop RESTful APIs, ensuring scalability and performance optimization
- Optimize database queries and implement caching solutions using Redis for enhanced system efficiency
- Mentor junior developers on best practices and emerging technologies

*Technologies: Python: LangChain, LangGrah, RAG, N8N, Gitlab, Laravel, WordPress, MySQL, Livewire, AWS, Horizon, Redis, DigitalOcean, OpenAI, Anthropic AI, JavaScript, Craft3, Qdrant*

#### Senior Backend Developer

**CanGuru** | Melbourne, Australia (Remote) | August 2020 - Present

- Designed and developed standardized backend code for all company projects, ensuring consistency and scalability across applications
- Led the development of scalable backend systems using Laravel, managing team to deliver high-quality software solutions
- Developed and maintained RESTful APIs using PHP (Laravel) and MySQL
- Develop and maintain custom software solutions for ArduPilot-based drones
- Create Python scripts for mission planning and flight data analysis
- Integrate Skybrush for advanced drone show choreography and management
- Developed and maintained multiple client websites using WordPress

## Software Developer

**Alshahbaa Technology** | Dubai, UAE (Remote) | July 2019 - July 2020

- Developed and maintained multiple client websites using Laravel 6 and WordPress
- Created custom themes and plugins to meet specific client requirements
- Collaborated with cross-functional teams to deliver projects on time with 100% delivery rate

*Technologies: Laravel, Blade Templates, Twig, WordPress, PHP, MySQL, HTML5, CSS3, JavaScript*

## Software Developer

**Ministry of Communication** | Damascus, Syria | June 2016 - June 2019

- Developed Windows desktop applications using C# and MySQL, streamlining internal processes and improving operational efficiency
- Designed and maintained internal organization websites, ensuring reliable access to critical resources and information

## KEY PROJECTS

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### Genio Pulse - Medical AI Assistant | New Project (Dates TBC)

- Developed medical AI Assistant for doctors, active in 4+ international hospitals (UAE, KSA, Egypt)
- Serves 5,000+ doctors, providing AI-powered diagnosis and clinical analysis for patient cases
- Role: Lead Developer responsible for AI integration and backend architecture
- Technologies: LangGraph, RAG, FastAPI, Qdrant VDB, Laravel, MySQL, LLMs (OpenAI, Claude, Qwen3m, Kimi, MedGemma, OpenBio,..etc), vLLM, React.js, EHR system integration

### Courageous Kids | May 2024 - Present

- Platform for children's social development through personalized stories, visual plans, and games
- Available on App Store and Google Play Store
- Role: Backend Developer
- Technologies: Laravel API, Python, Canvas, Mobile Backend Development

### QRystal - Digital Memories | January 2024 - August 2024

- Digital memory journey platform that captures and organizes user memories in one special place
- Role: Backend Developer
- Technologies: Laravel, MySQL, Cloud Storage Integration

### Profesh Dating App | September 2022 - Present

- Professional networking and dating platform connecting professionals across various industries
- Available on App Store and Google Play Store
- Role: Backend Developer
- Technologies: Laravel, API Development, Mobile Backend

### Roma Opticals E-Commerce | March 2022 - September 2022

- E-commerce platform for opticals and cosmetics serving Arab Gulf markets (KSA, UAE, Saudi Arabia)
- Available on App Store and Google Play Store
- Role: Backend Developer
- Technologies: Laravel, Payment Gateway Integration, Mobile APIs

### HistoryMiami Museum | December 2021 - February 2022

- Cultural institution website with content management and visitor engagement features
- Link: <https://historymiami.org>
- Technologies: WordPress, Custom PHP Development

### **Arts & Business Council of Miami | August 2021 - December 2021**

- Business networking platform for arts and cultural organizations
- Link: <http://artsbizmiami.org>
- Technologies: WordPress, Custom Development

## **EDUCATION**

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### **Master of Web Science**

Syrian Virtual University | September 2017 - September 2019

### **Bachelor of Computer and Information Technology**

Tishreen University | September 2011 - August 2015

## **LANGUAGES**

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**English:** Full Professional Proficiency

**Arabic:** Native Proficiency

## **CERTIFICATIONS & ACHIEVEMENTS**

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- Successfully delivered medical AI solution serving 5,000+ doctors across 4+ international hospitals
- Led development teams delivering 15+ web applications across healthcare, dating/networking, e-commerce, and educational sectors
- Expertise in AI/ML integration including LLMs, RAG systems, and vector databases
- Proven experience in microservices architecture and cloud deployment
- 100% project delivery rate in agile environments with cross-functional teams