MARTIN MAJIDI

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SUMMARY

Software Engineer with 5+ years of experience in algorithm development, AI systems, and API development. Expertise in conversational AI (RAG architectures, chatbot development), computer vision (object detection, video processing), and optimization algorithms. Background spanning Computer Science, Industrial Engineering, and AI enables bridging technical implementation with business optimization.

TECHNICAL SKILLS

Languages: Java, Python, MATLAB, SQL

Frameworks & Tools: Spring Boot, REST APIs, GraphQL, PostgreSQL, pgvector, Docker

AI/ML: RAG Architecture, YOLO (v8, v9), RT-DETR, Computer Vision, Vector Search

Cloud & DevOps: AWS (Technical Essentials certified), CI/CD, Microservices Architecture

WORK EXPERIENCE

SOFTWARE ENGINEER | Allente AS, Oslo   *Aug 2024 – Present*

Nordic telecommunications company providing streaming and TV services

- Built full-stack HR Chatbot with RAG architecture using Spring Boot, OpenAI GPT-4o, and PostgreSQL vector search, featuring admin panel for document management across 4 Nordic countries
- Maintained partner integration system processing subscription data and user synchronization across 6+ streaming platforms including Amazon Prime, Viaplay, and TV2 Norway
- Extended API gateway with new endpoints for Boost.ai chatbot and voice bot integration, configuring API connectors for customer service automation
- Implemented GraphQL and REST APIs across microservices for customer data retrieval

AI & ML DEVELOPER | Forzasys/SimulaMet, Oslo   *Jun 2023 – Jun 2024*

Sports technology company specializing in AI-powered video analysis

- Built end-to-end SmartCrop system for automatic sports video cropping (soccer, ice hockey) with focal point detection and API integration for social media distribution
- Developed and fine-tuned computer vision models (YOLO v8, v9, RT-DETR) for real-time object detection, achieving production-ready accuracy through hyperparameter optimization
- Designed processing pipeline handling video content for automatic reformatting to platform-specific aspect ratios

OPTIMIZATION DEVELOPER | Espad Company, Iran   *2017 – 2021*

Engineering consultancy specializing in operations research and optimization solutions

- Designed and implemented metaheuristic optimization algorithms in MATLAB for emergency response routing in earthquake scenarios
- Built mathematical models for real-world logistics and resource allocation problems, translating complex constraints into computational solutions

EDUCATION

Master of Science in Applied Computer and Information Technology   *2022 – 2024*

Oslo Metropolitan University, Norway — Specialization in Artificial Intelligence

Thesis (Grade A): SmartCrop: AI-Based Cropping of Sports Videos — Resulted in 2 peer-reviewed publications at IEEE ISM 2023 and ACM MMSys 2024

Master of Industrial Engineering   *2014 – 2017*

Azad University Najafabad, Iran — Focus on optimization algorithms and mathematical modeling

Bachelor of Computer Science   *2008 – 2012*

Sheikh Bahaei University, Iran

PUBLICATIONS

6 peer-reviewed papers ● *83 citations* ● *h-index: 5* — Google Scholar Profile

- AI-based sports highlight generation for social media — 3rd Mile-High Video Conference, 2024 (29 citations)
- SmartCrop: AI-based cropping of soccer videos — IEEE International Symposium on Multimedia, 2023 (12 citations)
- SmartCrop-H: AI-Based Cropping of Ice Hockey Videos — ACM Multimedia Systems Conference, 2024 (6 citations)
- Bi-objective optimization of warranty policies — Life Cycle Reliability and Safety Engineering, 2020 (3 citations)

CERTIFICATIONS

AWS Technical Essentials — Amazon Web Services

LANGUAGES

English (Fluent), Norwegian (Elementary), Persian (Native)