



DUC-KY NGO

SENIOR MANAGER - LEAD AI ENGINEER

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SUMMARY

Technical leader with extensive experience in AI, machine learning, and system architecture. Proven ability to lead cross-functional teams, deliver enterprise-grade AI/NLP solutions, and manage complex projects from ideation to deployment. Seeking to apply leadership, client engagement, and delivery planning expertise to drive high-impact technical solutions with full ownership and P&L responsibility.

WORK EXPERIENCE

Senior Manager – Lead AI Engineer, AitheNutrigene **Mar 2022 - Present**

- Led key AI initiatives (Image Processing, STT, NLP) from design to deployment
- Collaborated with clients such as MetaM, UNICEF, Kolon Industries.
- Successfully managed end-to-end real-time STT system for call centers
- Oversaw cross-functional teams across AI, DevOps, and integration.

Key Responsibilities:

- System design, performance optimization, and delivery of high-scale AI services.
- Team mentoring, technical documentation, cross-team coordination.
- Client communication & delivery planning (milestones, KPIs).

Senior AI Engineer, AitheNutrigene **Sep 2020 - Mar 2022**

- Led the development of an AI-powered Golf Swing Analysis app for Android and iOS, utilizing on-device human pose estimation to provide real-time feedback and performance insights
- Developed tumor detection & segmentation in PET-CT images

Machine Learning Researcher , Chonnam National University **Sep 2018 - Sep 2020**

- Published research in medical imaging, survival analysis, emotion recognition.
- Depth image analysis for Finger Detection and Human Pose Estimation

Software Engineer , Samsung Electronics (SVMC) **Dec 2015 - Aug 2018**

- Developed and maintained core features for the Photo Editor App and 360 Photo Editor, pre-installed on millions of Samsung mobile devices
- Utilized Android SDK, OpenGL, and custom image processing algorithms to deliver smooth and interactive photo editing experiences
- Strengthened foundation in data structures, algorithms, and performance optimization

EDUCATION

Master of Engineering (Computer Science) **2018 - 2020**

Chonnam National University

- Concentrated in AI, Software, Machine Learning and Computer Vision applications
- Published multiple papers and actively collaborated with cross-disciplinary teams in healthcare AI

BSc Electronics & Telecommunication **2012 - 2016**

Vietnam National University, Hanoi

- Focus on: Automation System (Controlling, Sensing), Smart Home Applications, Robotics, Network Protocols

SKILLS & EXPERTISE

- **Project Delivery & Planning:** Effort estimation, milestone tracking, client updates
- **People Management:** Mentoring, conflict resolution, performance tracking.
- **System Architecture:** AI pipelines, backend design, API integration.
- **Client Engagement:** Requirement analysis, expectation alignment, demo sessions.
- **Tech Stack:** Python, Java, Kotlin JS, Docker, AWS, Firebase, PostgreSQL, Linux, Jira.
- **Languages:** Vietnamese (Native), Korean (Professional), English (Professional)

SELECTED PROJECTS

Realtime Speech to Text Server – MetaM, Kolon Industries

- Delivered full system in 6 months; managed delivery timeline and deployment.
- Stack: Websocket, Multithreading, Asynchronous processing

Speech-to-Insight Solutions – UNICEF, Wisely, KB

- Built NLP pipelines & chatbot systems; handled multi-client coordination
- Stack: Docker Compose, Microservices, Python, REST API

AI Golf Swing Analysis App – Internal Product

- Led the design and development of an AI-powered mobile app (Android/iOS) for golf swing analysis using on-device pose estimation
- Stack: Kotlin, Java, Spring Boot, Jenkins, Firebase, MariaDB

CERTIFICATIONS

- Project Management
- Professional Scrum Master™ I (PSM I)
- Machine Learning
- Natural Language Processing Specialization
- Android App Development, Java, Kotlin