Muhsin Kompas

MSc Computer Engineer · R&D Software Engineer

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Summary

Experienced Software Engineer with an MSc in Computer Engineering, specializing in **Machine Learning**, **Deep Learning**, and **Computer Vision**. Strong technical foundation in developing algorithms through rigorous academic research and industry experience. Skilled in bridging the gap between theoretical AI models and practical deployment using **C++**, **Python**, and modern frameworks. Currently seeking to leverage this expertise to drive innovation in the technology sector.

Education

MSc Computer Engineering, GPA: 3.85/4.00 — City, Country
University Name — Sep 2021 – Jun 2024
Thesis: Your Thesis Title: A Study on Something Important [**Link**]

Focused on Machine Learning, Deep Learning, and Computer Vision. Conducted in-depth research on novel approaches to solve complex problems in the field.

- Developed and trained models using **PyTorch** and **TensorFlow** frameworks.
- Implemented novel algorithms achieving state-of-the-art results on benchmark datasets.
- Published research findings in peer-reviewed conferences.
- **Tech Stack:** Python, PyTorch, TensorFlow, NumPy, Pandas, Linux.

BSc Computer Engineering, GPA: 3.50/4.00 — City, Country
University Name — Sep 2016 – Jun 2020
Thesis: Your Bachelor Thesis Title Here.

Focus: Software Engineering, Embedded Systems, and Computer Vision.

Professional Experience

Company Name Inc. — City, Country
Software Engineer — Jan 2023 – Present
Leading backend development and AI integration for innovative projects.

- API & Backend Development: Architected and developed scalable RESTful APIs using **Python (Flask/FastAPI)**.
- AI Integration: Designed microservices integrating machine learning models for production use.
- DevOps: Managed deployments using **Docker** and **CI/CD pipelines** on **Linux** servers.
- Documentation: Prepared technical documentation and progress reports for stakeholders.

Another Company Ltd. — City, Country
Junior Software Developer — Jun 2020 – Dec 2022
Worked on embedded systems and signal processing projects.

- Embedded Development: Developed firmware using C++ for microcontrollers.
- Signal Analysis: Engineered algorithms in Python for data analysis and processing.
- Project Management: Managed project timelines and technical documentation.

Tech Startup - *Intern* — City, Country - Summer 2019
Implemented communication protocols and assisted in sensor integration for autonomous systems.

Projects

Team Lead & Core Developer — City, Country
Project Team Name — 2019 – 2020
Led development for a competition project focusing on autonomous systems and computer vision.

*Ranked **Top 5** in National Competition.* [**Link**]

- Developed real-time detection and tracking algorithms using **C++** and **Python**.

- Integrated multiple sensors for robust environmental perception.
- Designed simulation environments for algorithm validation before deployment.
- **Tech Stack:** C++, Python, ROS, OpenCV, Linux.

Skills

Programming	Python (Advanced), C++, MATLAB, SQL, Bash Scripting
AI & ML	PyTorch, TensorFlow, Keras, OpenCV, Scikit-learn
Tools & DevOps	Docker, Git, GitHub Actions (CI/CD), CMake, Linux (Ubuntu)
Frameworks	Flask, FastAPI, ROS/ROS2
Soft Skills	Problem Solving, Technical Writing, Team Leadership, Agile/Scrum
Languages	English (Professional), Your Native Language (Native)

Certificates

Deep Learning Specialization – Coursera – Andrew Ng [Certificate] 2023

Another Certificate Name – Platform – Instructor Name 2022