ANKUR KOHLI
SOFTWARE ENGINEER

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👤 ANKUR KOHLI - PORTFOLIO | 📍 Genoa, Italy

Software Engineer with expertise in Python, C/C++, JavaScript, ReactJS, Dart, Flutter, Java, Tailwind CSS & API driven distributed systems, focused on advanced technologies.

ABOUT ME

Proactive Software Engineer with experience in frontend development and API-driven client server systems for an Italian MediaTech. I specialize in building scalable architectures with reliable integration and realtime execution. With a strong foundation in AI, native frontend, and backend systems, I excel at problem solving and delivering high performance, cutting edge solutions. I am passionate about collaborative development, continuous improvement, and advancing project success through maintainable code and software principles.

PROFESSIONAL EXPERIENCE

• **Software Engineer**   *April 2025 - October 2025*
NTT DATA Italia   Italy

○ Developed and managed cross platform frontends with a UI/UX focus and realtime, multithreaded backends, enabling secure low latency communication and improving system responsiveness by 25%.

○ Led the development and deployment of an autonomous NAV2 SLAM pipeline using automation pipelines tested on a real robot, reducing deployment time by 30% and enabling scalable multiplatform deployment.

○ Enhanced system reliability through structured integration testing, validation, and debugging workflows using GitLab CI/CD, which reduced post deployment errors by 40% and improved runtime stability.

○ Drove agile cross team collaboration through technical documentation, architectural design, and specifications, turning research concepts into deployable, high performance systems.

• **Thesis Project**   *June 2023 - February 2024*
NTT DATA Italia   Italy

○ Achieved 30% efficiency gains by optimizing real time, multithreaded robotic architectures

○ Developed containerized ROS2 SLAM mapping and navigation pipelines, enabling hardware-agnostic scalability and cutting deployment time by 25%.

○ Boosted system uptime by 20% through automated testing and GitLab CI/CD.

○ Authored rigorous technical documentation, accelerating team productivity and longterm maintainability.

PROFESSIONAL SKILLS

TECHNICAL SKILLS

Programming Languages:
Python, C/C++, Java, Dart, JavaScript

Frontend Technologies:
HTML5, CSS3, ReactJS, Bootstrap, Tailwind CSS

GenAI & LLM Engineering:
LLM, RAG, LlamaIndex

APIs:
JSON, WebSocket Services, REST, RESTful

Software & Tools:
Ubuntu/Linux, Docker, Git/GitLab, Flutter, CI/CD Pipelines, VS Code

SOFT SKILLS

Leadership & Planning:
Strategic Planner, Project Management, Mentoring

Innovation & Problem Solving:
Creative Spirit, Concept Development

Teamwork & Collaboration:
Conflict Resolution, Reliable, Organized

CERTIFICATIONS

- **Google Cloud:** Prompt Design in Vertex AI — *February 2026*
- **Microsoft:** Azure Fundamentals — *November 2025*
- **Google Cloud:** Responsible AI: Applying AI Principles with Google Cloud — *January 2025*
- **Google Cloud:** Introduction to Large Language Models — *January 2025*
- **Google Cloud:** Introduction to Responsible AI — *January 2025*
- **Google Cloud:** Innovating with Google Cloud AI — *December 2024*
- **Google Cloud:** Introduction to Generative AI — *October 2024*
- **Amazon Web Services (AWS):** Introduction to Machine Learning: Art of the Possible — *September 2024*

EDUCATION

- **M.Sc Computer Engineering (Specialization: Robotics Engineering)** — *September 2021 - March 2024*
  University of Genoa — Italy
- **B.Tech Mechatronics Engineering** — *July 2016 - June 2020*
  University of Petroleum & Energy Studies — India

PROJECTS

- **Frontend Portfolio**
  - **ResumiAI: Next-Gen Career Intelligence Platform:** Designed and developed a cost efficient, AI assisted resume analyzer using React.js, Tailwind CSS, and Puter.js, providing semantic resume JD matching, ATS focused insights, skill gap analysis, and GenAI driven improvement suggestions. [○]
  - **SkyScope Live Weather Dashboard with API Integration:** Built an interactive realtime weather application using JavaScript, Bootstrap, and WeatherAPI, implementing dynamic UI rendering, weather based animations, and API driven data workflows to enhance user experience and performance. [○]

- **Artificial Intelligence Portfolio**
  - **Automated Warehouse Scenario Using PDDL 2.1:** This project aims to create an AI planning warehouse optimization system that enhances order management, storage efficiency, and logistics through advanced planning, priority queues, plan graphs, and realtime analytics. [○]
  - **Task and Motion Planning for Robotics in Coffee Shop Scenario:** Integrate task and motion planning for robotic navigation using PDDL, state-space graphs, BFS, heuristic search, and Euclidean distance. [○]

- **Machine Learning Portfolio**
  - **Cervical Cancer Detection using CNNs and VGG16 Module - TensorFlow:** The objective is to deploy Deep learning based cervical cancer detection using VGG16 Convolutional Neural Network (CNNs) in TensorFlow with comprehensive preprocessing, training, and evaluation. [○]
  - **Convolutional Neural Networks (CNNs) to Process an Image - PyTorch:** The goal of this experiment is to implement Convolutional Neural Networks (CNNs) in Jupyter/Python using PyTorch for efficient image processing and analysis with deep learning techniques. [○]

- **Robotics Portfolio**
  - **Software Architecture for Mobile Robot Control:** This project involves controlling a ROS based mobile robot using graph based routing with Dijkstra's algorithm in Python. [○]

HOBBIES

- Photography
- Hiking
- Chess
- Cricket
- Traveling
- Driving

LANGUAGE

- **English:** Proficient
- **Italian:** Limited working proficiency

REFEREE

Claudia Lunini
Lead of Smart Robotics, NTT DATA Innovation Center
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Email: claudia.lunini@nttdata.com
Relationship: Advisor

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