



# ANKUR KOHLI

## SOFTWARE ENGINEER

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👤 ANKUR KOHLI - PORTFOLIO

*Aspiring Software Engineer with a strong foundation in Python, C/C++, Dart, Flutter, Java, Bash, JavaScript, API driven client server development, & advanced technologies.*

### ABOUT ME

Proactive Software Engineer with expertise in frontend development and API-driven client server systems. Experienced 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 Flutter frontends with a UI/UX focus and realtime, multithreaded backends, ensuring secure, low latency communication for intelligent systems.
- Led the development and deployment of an autonomous NAV2 SLAM pipeline using Dockerized ROS2, CI/CD, and tested on a real robot for hardware cross-platform scalability scalability.
- Enhanced system reliability through structured integration testing, validation, and debugging workflows using GitLab CI/CD, which reduced post deployment errors.
- 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

- Researched and developed realtime, multithreaded architectures to improve robotic system efficiency by 30%, optimizing inter process communication and latency.
- Built and deployed SLAM based mapping and navigation pipelines in Dockerized ROS2 environments, enabling hardware independent scalability and reducing deployment time by 25%.
- Tested, validated, and debugged software using structured automation and integration workflows within GitLab, increasing system reliability and uptime by 20%.
- Authored comprehensive technical documentation, improving team productivity and maintainability across projects.

### PROFESSIONAL SKILLS

#### TECHNICAL SKILLS

##### Programming Languages:

Python, C/C++, Java, Dart, HTML5, CSS3,  
Bootstrap, Bash, JavaScript

##### Libraries:

OpenCV, PyTorch, TensorFlow, OpenAI

##### 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

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• Microsoft: Azure Fundamentals	November 2025
• Google Cloud Skills Boost: Responsible AI: Applying AI Principles with Google Cloud	January 2025
• Google Cloud Skills Boost: Introduction to Responsible AI	January 2025
• Google Cloud: Innovating with Google Cloud AI	December 2024
• Google Cloud Skills Boost: Introduction to Generative AI	October 2024
• Amazon Web Services (AWS): Introduction to Machine Learning: Art of the Possible	September 2024
• Amazon Web Services (AWS): Introduction to Robotics on AWS	September 2024

## EDUCATION

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• 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

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- Frontend Portfolio
  - 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. [Q]
  - Interactive Game using JavaScript: This project is a web based Rock-Paper-Scissors game that features dynamic gameplay, intuitive design, and a responsive layout, where complete JavaScript logic for user choices, game rules, and automated scoring has been implemented. [Q]
- 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. [Q]
  - Task and Motion Planning for Robotics in Coffee Shop Scenario: The goal of this project is to integrate task and motion planning for robotic navigation using PDDL based planners, state space graphs, BFS, heuristic search, and Euclidean distance computation. [Q]
- 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. [Q]
  - 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. [Q]
- Robotics Portfolio
  - Software Architecture for Mobile Robot Control: This assignment involves developing a software architecture for controlling a ROS based mobile robot by applying graph based routing, Dijkstra's algorithm, and Python implemented controller/UI nodes. [Q]

## HOBBIES

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

## REFeree

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