

# Pranav Raghunath Salunkhe

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## Skills

**Languages:** C, C++, Java, Python, Go, JavaScript, SQL  
**Technologies & Tools:** VS Code, Linux, Github, Docker, Django, Flutter, Node.js, MongoDB, React.js  
**Frameworks:** Kubernetes, TensorFlow, Pandas, Numpy

## Experience

**The Robotics Forum, Pune** 09/2022 - 06/2023

### *Embedded System Programmer*

- Developed Arduino libraries for motor control and PID control systems using OOP principles, effectively reducing the number of global variables by 30%.
- Designed and developed parallel processing techniques to enhance robot efficiency by enabling the robot to carry out 2 or more tasks simultaneously.
- Conducted localization of robots using camera feedback, ensuring accurate positioning and navigation with an error less than 5%.
- Conducted sessions in software and robotics workshops for more than 100 students.

## Project

**Multiplay Zone** 05/2024

### *Tech Stack: Node.js, Flutter, MongoDB*

- Created a multiplayer gaming application which consists of games like XO, Dot-and-Square, etc using Flutter, Node.js, MongoDB (Atlas), and Socket.IO, achieving real-time synchronization with sub-second latency for a 2-player matches.
- Implemented AI bots using algorithms like A-star and backtracking, enabling players to compete against computer opponents in single-player mode.

**Handy Helper - Application for Household Chores** 04/2024

### *Tech Stack: Flutter, Firebase*

- Developed an app using Flutter and Firebase to connect local labor workers with users for household chores, thereby empowering the local economy and increasing labor engagement by 40%.

**StoryVista** 11/2022

### *Tech Stack: React.js, Node.js, Flask*

- Developed a platform using Node.js and React.js enabling users to write, read, and share stories.
- Implemented features to automatically generate story summaries and cover photos, as well as create audiobooks using generative AI models.

## Education

**Vishwakarma Institute Of Technology, Pune** 01/2021 - 05/2025

Bachelor of Technology in Computer Science and Engineering

**CGPA: 8.8/10**

**Relevant Coursework:** - Operating System, Computer Organisation, Compiler Design, Database Management, Theory of Computation, Data Structures, Computer Networks, Computer Security

## Achievements

**Smart India Hackathon | Django, MongoDB, LLM, GenAI** 12/2023

- Secured 1st rank for the project "Text to Video Converter" for press articles.
- Developed a Django web application utilizing Language Models and Diffusion Models to transform user-provided text into 1-2 minute videos with subtitles, multilingual voice-over, and MongoDB storage.

**DD National Robocon | Arduino, Websocket, C++** 06/2023

- Secured AIR 5 in the robotics competition held at IIT Delhi.
- Worked on implementing locomotion and control algorithms, focusing on autonomous movement and incorporating parallel processing capabilities.

## Certifications

**Udemy - The Web Developer Bootcamp 2024** 06/2024

**Udemy - Complete Tensorflow 2 and Keras Deep Learning Bootcamp** 06/2024

**Udemy - The Complete Python Bootcamp for Zero to Hero** 03/2024

**Udemy - Flutter and Dart - The Complete Guide** 02/2024

**NPTEL - Data Structure and Algorithms Using Java - 78%** 07/2023 - 10/2023

**NPTEL - Programming in Modern C++ - 71%** 07/2023 - 10/2023