

Kunwarpartap Singh

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Education

Chitkara University

Bachelor of Engineering in Computer Science (CGPA – 9.3)

Himachal Pradesh, India

2021 – 2024

Thapar Polytechnic College

Diploma in Computer Science Engineering (CGPA – 8)

Punjab, India

2018 – 2021

Experience

Software Engineer Intern (System Integration)

August 2023 – July 2024

Bits In Glass

Ajitgarh, Punjab

- Developed middleware solutions using MuleSoft, integrating REST and SOAP APIs with PostgreSQL for efficient data handling.
- Gained proficiency in API Modeling, Cloud deployment strategies, Data transformations, and Microservices architecture to earn the MuleSoft Certified Developer certification.
- Demonstrated practical application of knowledge through the completion of Proof of Concept (POC) projects, covering diverse integration scenarios.

Projects

IoT Based Agricultural Supervision System | *Node.js, React, Python, MongoDB, Raspberry Pi* [GitHub Link](#)

- Developed a full-stack web application paired with IoT System, to make farming smarter and more efficient, helping in saving water resources.
- Frontend dashboard summarizes sensor data; Backend processes real-time actions using web sockets.
- IoT system runs multi-threaded Python program to publish and collect sensor data and actuator actions.

Autonomous Driving Car | *Python, Open CV, Raspberry Pi*

[GitHub Link](#) | [Video Link](#)

- Successfully conceptualized and engineered basics of self-driving car, utilizing advanced technologies in computer vision and machine learning for entry levels of automation.

College Grievance Portal | *Python, Django, HTML and CSS*

[GitHub Link](#)

- A multi-user web portal for students to register campus complaints, with different roles for each administration.

Humanoid Type Multipurpose Robot | *Python, C/C++, Arduino UNO*

[Video Link](#)

- A multipurpose robot with computer vision, speech recognition capabilities and 3D printed limbs.

Technical Skills

Languages: C/C++, Python, Java, SQL (Postgres), JavaScript, HTML, CSS, Object Oriented Programming

Technologies: React, Node.js, Django, MuleSoft, PostgreSQL, MongoDB, Tailwind CSS, JWT, Sockets.IO, Prisma (ORM), Mongoose, IoT, Arduino, Raspberry Pi, Git, Docker, AWS

Achievements

- Finalist in the Great India Hackathon for developing a user-friendly web app for college and hostel complaints.
- Appreciation Award from Thapar Institute of Engineering Technology for participation in Robotics Championship.
- Awarded for securing first position at INNOTECH (Pushpa Gujral Science City) for making Innovative Smart Farming System.

Certificates

MuleSoft Certified Developer - L1 | 2024

Salesforce

- Covered core concepts for Mule 4 integration projects and passed a proctored exam to earn certification.

Supervised Machine Learning: Regression and Classification | 2022

[Link](#) | Coursera

- Foundational Machine Learning Course offered by Deep Learning.AI and Stanford University.

Python Specialization | 2020

[Link](#) | Coursera

- Python Specialization Course offered by University of Michigan.