

Sparsh Nidhi

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● ABOUT ME

Enthusiastic about new technologies and innovation in the field of computer science, AI and robotics technology. Always looking for new ideas and concepts to learn and explore. Adept at problem-solving, leading group discussions and managing projects.

Software Developer | Mobile & Agentic Systems | Computer Engineer

● WORK EXPERIENCE

05/2025 – CURRENT Bengaluru, India

SOFTWARE DEVELOPER I (SDE-1) PETYOSA

Joined as a software intern in May 2025 and converted to full-time Software Developer I (SDE-1) in October 2025. Grew from mobile app development into DevOps, infrastructure, agentic delivery, and a forward-deployed role with partners.

- Built and shipped the company Capacitor app for both Android and iOS, including some native code, Play Store policies, and App Store / Play Store uploads and approvals
- Took full ownership of the app: features, admin panel, backend work, testing, building binaries, and store submissions
- From February 2026, designed and ran an end-to-end agentic pipeline (Codex, Claude, Grok, Gemini) covering code, PRs, review, merge, test, server deploy, and store release — focusing on pipelines and frameworks rather than handwritten lines of code
- Built automated product pipelines such as a push-notification marketing pipeline and automated app updates
- Built Pet Buddy, an in-app AI assistant using RAG and rule-based harnesses to answer pet-parent questions (e.g. who is my pet, when is vaccination due)
- Lead developer for Petyosa Sparsh (partner portal), a web portal integrated with the mobile app, from development VMs through production: features, analytics and metrics, UI, and performance
- Expanded into DevOps and infrastructure (environments, deploys, production operations)
- Worked as a forward-deployed engineer with partners: met them in the field, built relationships, gathered feedback and feature requests, brought issues back, and shipped fixes and new features

08/12/2024 – 05/2025 Kathmandu, Nepal

DJANGO BACKEND DEVELOPER PROJECT DEV-SUPPORT - SKILLTOOTR PVT. LTD.

My role in this position is:

- Developing backend for the dev-support project website
- Writing Django code for the entire website backend to add various features and provide endpoints for the frontend
- Creating and testing REST API endpoints using Python and Postman
- Writing tests for the backend and fixing bugs

11/06/2024 – 21/03/2025 Patan, Kathmandu, Nepal

ROBOTICS AND CODING INSTRUCTOR SKILLTOOTR PVT. LTD.

In my tenure I assumed responsibilities like:

- Designed digestible workshops, courses and projects of robotics (basic electronics, programming and basic physics)
- Delivered robotics workshops and taught electronics (Arduino) and coding (C/C++)
- Created project blueprints, concepts and prototypes for robotics workshops (e.g. Smart car, line detector bot, iron man helmet prototype)
- Delivered online tutorials with broken down and easy to follow concepts of programming

14/07/2024 – 01/12/2024 Kathmandu, Nepal

PYTHON AND PYQT DEVELOPER PRINCE LABS PVT. LTD.

Worked as a Junior Python developer with roles of PyQt UI, integration and python coding.

- Used PyQt and PySide 6 to make software UI components
- Wrote Python code for API interaction with backend (RESTful APIs)
- Optimized and cleaned company's legacy Python code.
- Used Briefcase to package releases
- Prepared documentation and release notes of Software

06/2023 – 07/2024 Kathmandu, Nepal

PRESIDENT ROBOTICS CLUB OF KEC

Worked as a president of Kathmandu Engineering College Robotics Club. After working for one year as member and one year as event manager in the club, I received the position for the president. The following were my roles:

- Led diverse projects by promoting teamwork, clear communication, and a shared vision
 - Built Robots for various college level competitions and expos like Yantra, Dristi, RoboSoccer, Robowar, Roborace.
 - Launched digestible bootcamps about robotics for students in rural areas
- Organized and launched events such as workshops and bootcamps.
- Managed team roles and responsibilities and making use of resources in the most optimal way.
- Developed project ideas and make resource proposals to the college.

06/2022 – 06/2023 Kathmandu, Nepal

EVENT AND PROJECT MANAGER ROBOTICS CLUB OF KEC

After working for one year as member, I received the position for event manager. The following were my roles in the position:

- Prepared, monitored and maintained event budgets
- Recruited and led robotics teams in competitions
- Created media elements such as posters and videos for social media promotion
- Develop and code robots for various events and competitions.

In my tenure we successfully organized Techno cruise event in collaboration with IIT Kanpur.

02/2022 – 12/2022 Kathmandu, Nepal

COMPUTER SCIENCE TUTOR BUDANILKANTHA EDUCATION SERVICES

I worked to teach A Level students Computer Science with the following responsibilities:

- Delivered tutorials with real world examples about core concepts of computing.
- Planned lessons to target subject weaknesses

● **PROJECTS**

SAMBODHAN — AI GRIEVANCE REDRESSAL

Built Sambodhan, an AI-powered grievance redressal platform that intakes citizen complaints, interprets the issue, and routes it through a structured workflow so cases can be tracked through to resolution rather than sitting in an unstructured queue.

04/2023 – 04/2024

AI CONTENT DETECTION

This project uses a trained distilBERT model to detect AI-generated text (LLMs) and enhances accuracy by integrating it with a distilBERT-based plagiarism detector. It is a research project completed as part of a Bachelor's in Computer Engineering.

05/2022 – 04/2023

PARCC - AN AUTOMATED PARKING SYSTEM

The system manages vehicle entry and exit in a parking lot using video-based number plate recognition, logs timestamps, calculates parking fees, and generates a QR code. I developed Python modules for frame extraction and used PyTesseract for OCR.

Link <https://github.com/chocolatewafer/Parcc.git>

02/2023 – 04/2023

MOVIE RECOMMENDATION SYSTEM

This project provided a collaborative filtering recommendation system that provided recommendations based on movie tags of users that watched a movie. My role in the project was to use python to develop backend for the project and manipulate the movie dataset.

06/2022 – 02/2024

ROBOSoccer ROBOTS

My role in this project was to lead the team of KEC Robotics Club to design and develop RoboSoccer Robots that were then taken to various events and competitions. My role also extended to C programming for the robot logic. The robots built competed in LOCUS, YANTRA and similar events.

● **EDUCATION AND TRAINING**

2026

MICRODEGREE IN ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING FUSEMACHINES

2019 – 2024 Kathmandu, Nepal

BACHELOR'S OF COMPUTER ENGINEERING KATHMANDU ENGINEERING COLLEGE

2017 – 2019 Kathmandu, Nepal

CAMBRIDGE INTERNATIONAL AS & A LEVEL SAINT XAVIER'S COLLEGE

● **SKILLS**

Programming

Capacitor (iOS/Android) | CI/CD and agentic pipelines | DevOps / infra | Play Store & App Store release | AI coding agents (Codex, Claude, Grok, Gemini) | RAG / Pet Buddy-style assistants | C/C++ | DRF (Django REST framework) | Python | Pytorch, Tensorflow | Graphical User Interface (Python, PyQt, PySide, Qt) | Backend: Django | Image and Video Handling with Python: OpenCV, Pillow, Tesseract, etc. | Ktrain

3D programs

Blender For 3D Art and Design | Autodesk Maya 3D modelling software

Others

Adobe Illustrator | Adobe Photoshop | PDF LaTeX

● **HOBBIES AND INTERESTS**

3D animation, Coding, Basketball, Painting, Guitar