SAMEER YADAV

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Education

IIIT Naya Raipur **8.37/10**
B.Tech in Computer Science *Dec. 2022 – June 2026*

Bal Bharti Public School **95.3%/100**
CBSE - Class-XII *May. 2021 – May 2022*

Experience

Intern **Aug 2024 – Present**
Samsung Prism
- Develop a system to convert indoor layouts from JSON format to Gazebo's SDF format for robotic simulations.
- Parsed JSON files to understand different components and automatically generated corresponding 3D Gazebo worlds.
- Integrated physical properties into the generated 3D models based on object types, enhancing the simulation accuracy.

Vice Head **Apr 2024 – Present**
CipherCell IIITNR
- Organize multiple workshops and introduction sessions, hackathons, and web vulnerabilities sessions.
- Executed successfully CTF events as problem setter for Technovate and multiple CTF events.
- Bug Bounty event named 404notfound for app testing with a prize pool of Rs 10,000.

Projects

IIITNR Gatepass app | *Flutter, Node.js, Express.js, Nosql, Mysql, Git, apache/nginx* **Aug 2023 – Present**
- Transformed the college's app into a versatile platform, integrating ad space for sponsors and events and introducing features like buy/sell, lost and found, and emergency contacts.
- Collaborated with the college administration to enhance the app, ensuring security, approving content, and streamlining campus processes.
- Administered the app, serving over 500 daily users and 1000+ registered users while monitoring user experience reports to inform improvements.
- Successfully launched the app on the Play Store and the web, attracting a growing user base among students, faculty, and support staff.

Fashion Helper(3D T-Shirt Customizer) | *React, Three.js, OpenAI's DALL-E* **Mar 2024 – Mar 2024**
- Developed a user-friendly web application for customizing 3D t-shirts using React, Three.js, and OpenAI's DALL-E.
- Enabled users to upload custom logos, generate patterns using AI prompts, and visualize their designs in real time.
- Implemented features for resizing, rotating, and positioning logos, selecting colors for various elements, and applying realistic lighting and shading effects.
- Handled Login using Firebase with API integration, environment setup, and deployed the application using Netlify for testing and feedback.

QR Ticketing System For Smart Bus | *Python, Flask, HTML/CSS, Js, Git, Rasberry Pi* **Mar 2023 – July 2023**
- Implemented a QR code-based ticketing system for streamlined and efficient bus boarding.
- Designed a user-friendly frontend using HTML/CSS and Instascan JS library for QR verification from any device.
- Handles ticket generation, validation, and storage of transaction data and deployed using ngork.

Political Speech Analysis | *Python, Spacy, NLP, Jupytr notebook* **Mar 2023 – July 2023**
- Extracting valuable insights from political speeches by leveraging natural language processing techniques.
- Analyzing sentiment, named entities, and themes in political speeches fosters understanding, transparency, and informed political decision-making.

Battler Web Game | *Python, Flask, Sqlite3, HTML, CSS, Javascript, Git* **Nov 2022 – Dec 2022**
- Designed and developed a multiplayer Progressive Web App (PWA) featuring a social network, enabling users to connect as friends, play games, and track scores.
- Implemented a suite of games, including Stone-Paper-Scissors and Hand Cricket, with the flexibility to add more games to the platform.

Technical Skills

Languages: Python, C/C++, JavaScript, Dart, Java, SQL (MySQL, Postgres, Oracle), Nosql, HTML/CSS, Golang
Frameworks: Flutter, Node.js, Flask, Express.js, React, nextjs, svelte
Developer Tools: Git, VS Code, Bash, Powershell, Firebase, Gemini/Chatgpt Api,
OS: Windows, Linux (ubuntu) server/wsl

Achievements

- Winner of bit2byte competition as Team leader and participated in Website wars, DevGenious Quiz, and ML competitions.
- Winner in Scientific for developing and showcasing the IIITNR app.
- Category winner in Technovate Hackathon for Web3 showcased Traveller mobile app.

Certifications

edX: CS50x   **Harvard University**
Introduction to Computer Science   *View Certificate*

edX: CS50's Introduction to Programming with Python   **Harvard University**
Python Programming   *View Certificate*

edX: CS50's Introduction to Artificial Intelligence with Python   **Harvard University**
Artificial Intelligence   *View Certificate*