Siddharth Prabhakar

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Summary

Passionate Computer Science student with a track record of innovation and problem-solving. Proven ability to craft visually captivating user experiences and deliver robust code. Seeking a challenging internship in a dynamic organization where I can make a meaningful impact.

Work Experience

Full Stack Developer Intern | IEEE Bombay Section | December 2022–February 2023

- Collaborated with a dynamic team of developers to design and implement a whiteboard website using cutting-edge web technologies.
- Actively participated in daily stand-ups and sprint planning, ensuring timely project completion and effective communication within the team.
- Conducted code reviews and provided constructive feedback to enhance overall code quality and maintainability.
- Ensured the alignment of development efforts with design specifications, contributing to a visually appealing and cohesive end product.

Android Lead | Google Developer Student Clubs | August 2023 - Present

- Conducted insightful workshops on Android development, sharing best practices and fostering skill enhancement within the team.
- Mentored team members during the Google Solution Challenge, providing guidance on Android development practices and project execution.
- Fostered a collaborative environment, ensuring effective communication and coordination among team members to meet project objectives.

Projects

Comparison of models for predicting total electron content across low- latitude Indian regions

- Led the development of a TEC (Total Electron Content) prediction model using Artificial Intelligence and Machine Learning techniques.
- Employed various libraries, including NumPy and Pandas for data handling, Scikit-learn for preprocessing and modeling, and TensorFlow, Keras for building deep learning models.
- Implemented a sliding window approach for sequence generation, with sequences split into training and validation sets.
- The project contributes to climate change research by predicting TEC modifications influenced by season, geomagnetic conditions, solar cycle, and activity.

CodeOdyssey Website

- Developed a dynamic learning roadmap platform, CodeOdyssey, using React.js, Bootstrap, Node.js, and MongoDB with Express.js in the backend.
- Enabled students to access curated roadmaps verified by mentors for various learning streams.
- Implemented user-friendly features allowing users to download and edit roadmaps based on personal learning goals.
- Contributed to a supportive learning community by providing a resource for students seeking guidance on where to start in their learning journey.

AI-Based Approach for Automated Detection and Analysis of Technical Debt in Java Code

- Developed an innovative solution to automate the detection and analysis of technical debt in Java code using advanced AI techniques.
- Pioneering a novel solution to automate the early-stage detection and analysis of technical debt in Java code using cutting-edge AI techniques.
- Currently implementing generative AI and data mining methodologies to identify preliminary patterns of technical debt in Open-Source Java projects.
- Anticipated contribution to the field of software engineering by addressing the critical issue of technical debt in Java projects.

Education

Bachelor of Technology in Computer Science and Engineering
Symbiosis Institute of Technology, Pune
Expected Graduation: June 2025

Higher Secondary Education (12th Grade)
Ryan International School
Graduated: June 2020

Skills

Frontend Development:
React.js, HTML, CSS, JavaScript, Bootstrap, Figma (UI/UX)

Backend Development:
Java, Python, Django