Priyam Saha

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Experience

Proelevate | *SDE intern*   **June 2024**
- Developed and optimized backend part using express and mongodb and resolved 100% existing bugs.
- Integrated load-balancing , auto-scaling in aws ec2 instance, implemented auto-deploy in aws using ci-cd pipeline and github actions.

Cubiktech | *Backend Developer Intern*   **October 2023 - January 2024**
- Developed MERN stack for a ride-sharing app, integrating AWS S3 for file upload, a secure payment gateway, and authentication by phone, email, google with password encryption.
- Integrated WebSockets for real-time location tracking, real-time updates of car booking, OTP validation, booking cancellation, completion, chatting between User and driver, also resolved almost 99% bugs.
- Crafted efficient design ensuring optimal performance for user, driver, owner, admin by api, cron job, Websocket.

Circuitverse | *Open source contribution*   **January 2024 - March 2024**
- Fixed 5-6 backend bugs related functionalities , developed 1-2 new features using rails, postgresql.
- Developed real-time collaboration using Y-js in circuit simulation for multiple user with real-time auto-synchronization

Projects

Vision Bridge | *PyTorch, OpenCV, TensorFlow,React,Flask,AWS,Nodejs*   **January 2024**
- Applied YOLO-based model to recognize vehicles and daily life objects, trained on COCO-80 dataset.
- Deployed ML models using Flask and AWS ec2 instance.
- Developed features for currency note detection, OCR, face, vehicle, and traffic light detection with audio-video interfacing, more than 80 daily object identification, and creating interactive user interfaces.

ChatSphere Connect | *MongoDB ExpressJs ReactJs WebSocket WebRTC*   **January 2024**
- Developed a real-time chat app using MERN stack, Socket.io, and WebRTC for live updates on pending invitations, friend lists, messages, chat history, and online status.
- Introduced a new feature where simultaneous messages possible to more than one friend by forming a cluster.
- Implemented peer-to-peer architecture enabling screen sharing and video calls with up to 4 participants.

Technical Skills

Languages: Python, Java, C,C++, HTML/CSS, JavaScript, SQL, bash
Developer Tools: Postman , Git—Github , MySQL , Docker , AWS
Technologies/Frameworks: NodeJs , Express.js , MongoDB, MYSQL , React, Numpy , Tensorflow , Flask

Education

Jadavpur University (Kolkata,India)   **December 2021 – present**
Bachelor of Engineering in Computer Science   *CGPA: 8.7*

- ∗ Data Structures
- ∗ Data communication
- ∗ Algorithms Analysis
- ∗ Database Management
- ∗ Artificial Intelligence
- ∗ Internet Technology
- ∗ Operating System
- ∗ Computer Architecture
- ∗ Computer Network
- ∗ Object Oriented Programming

Achievements

Hacktoberfest   **October 2023**
Contributed in open-source project algolisted.com   *Certificate Link*

- ∗ Added Redis caching, reducing API response time from 15 seconds to 15 milliseconds
- ∗ Added cookie based authentication and authorization in api and other enhancements in api security.

First In Geekathon in Techno main University   **May 2022**
Developed a waste management app with smart bin and some other unique ideas.   *Certificate Link*

3rd in Climate Connect By IEEE Kolkata chapter   **May 2023**
Forecast future climate of Kolkata and India by given dataset   *Certificate Link*

JBNSTS Junior Scholar   **Jan 2019**
Awardee

Volunteering

JU Code Club