Mayank Chauhan

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EDUCATION

Indian Institute of Information Technology, Kalyani — Kalyani, Nadia, WB
Bachelor of Technology- Computer Science and Engineering — *Oct, 2020 - May, 2024*

EXPERIENCE

Bharat Electronics Limited, Ghaziabad, Uttar Pradesh, India — June, 2023 - July, 2023
Web Developer and Research — *Onsite*
- Developed a dummy website for Bharat Electronic Limited using HTML, CSS, and JavaScript, detailing nine locations and showcasing company information.
- Demonstrated expertise in Software Development Life Cycle for Network-Centric Systems, optimizing methodologies and implementing best practices. Researched Radar Systems, including NFTR testing(100% indoor testing range), contributing to strategic insights.

Full Stack Intern — Jan, 2024 - present
Cehpoint E-Learning And Cyber Security, Kolkata, West Bengal, India — *Remote*
- Boosted user engagement by 25% with an interactive website, fostering efficient hiring practices for developers and employers while providing a user-friendly environment for project execution.
- Orchestrated the development of an interactive freelancer platform, integrating cutting-edge technologies like React.js and Tailwind CSS. Crafted an engaging assessment page with user-centric design, enhancing the hiring process and user experience.

PROJECTS

Detected Tropical Cyclones Centre in INSAT-3D Satellite Images Using Computer Vision
- **Tools & technologies used**: Python3, Computer vision, YOLO-v8, Roboflow, etc.
- Automated detection of cyclone centers in INSAT-3D images using YOLOv8, enhancing resolution with interpolation and precise annotation.
- Collected and formatted Bay of Bengal cyclone data (Nov 10-19, 2018) for model training; achieved classification accuracy of 50%-100% with an F1 score of 0.88.

Built a Social Media Application X-pod
- **Tools & technologies used:** NodeJS , React ,ExpressJS ,MongoDB.
- Developed X-pod, a full-stack social media app with NodeJS, ExpressJS, and React, optimizing write operations by 30%.
- Implemented Firebase OAuth for secure authentication, increasing user engagement by 20% and reducing unauthorized access by 25%, enhanced search efficiency and reduced search time by 30%.

Built a Backend for a Video Streaming Application
- Tools & technologies used: NodeJS, Cloudinary, ExpressJS, MongoDB.
- Backend development for the video streaming app is 100% complete, ensuring efficient video storage. Currently focusing on frontend implementation to enhance user experience.
- Transitioning to frontend development after successfully completing backend tasks, aiming for a seamless user interface.

TECHNICAL SKILLS

Languages: C/C++, JavaScript, Python, SQL.
Frameworks: ReactJS, NodeJS, ExpressJS, ViteJS, NextJS, Tailwind CSS, jQuery, Bootstrap
Libraries: Pandas, Numpy, Matplotlib, Sklearn, Plotly, Tensorflow, PyTorch, Jupyter, OpenCV
Databases and Tools: MongoDB, SQL, Git, GitHub, Jupyter Notebook, Postman, Roboflow
Areas Of Interest: Machine Learning, Web Development, Computer Vision

ACHIEVEMENTS

- **Uttar Pradesh Science Talent Search Examination (UPSTSE) Scholar.**
- Secured **75th** Rank in **GeeksOfGeeks ML Hackathon 2023**.
- **Bronze Medalist** at **All India Roller Skating Open Championship**.
- **Winner** of Intra IIIT Kalyani Cricket Tournament 2023-2024.

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