Pakhi Chatterjee

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Highly motivated Software Engineer pursuing a Master's in Computer Science Engineering at The Ohio State University. Strong foundation in full-stack development, machine learning, and core computer science principles. Eager to apply expertise in Python and C++ to contribute to innovative projects in Data Science, Python Development, Software Development, or DevOps. Seeking an entry-level or internship position to leverage acquired skills in a dynamic technical environment.

Education

The Ohio State University | Columbus, OH
Master of Science in Computer Science Engineering, Expected May 2026
- Relevant Coursework: Algorithms, Software Engineering, Programming Languages, Computer Vision, Data Visualization, Data Mining.

SRM University | Chennai, IND
Bachelor of Technology in Information Technology, August 2024
- GPA: 3.8/4.0
- Relevant Coursework: Computer Architecture, OS, Compiler Design, Database Management Systems, AI, Data Analysis, Data Structures & Algorithms, Computer Networks, Software Engineering.

Professional Experience

GRC Intern | CyRAACS - Bangalore, IND   Nov 2023 – Feb 2024
- Analyzed Information Technology and Cyber laws, including NIST, GDPR, and ISO 27001 standards, contributing to the team's governance, risk, and compliance initiatives.
- Collaborated in team meetings to offer insights and support project efforts.

Team Lead-Student Ambassador | Viral Fission - Chennai, IND.   Sept 2021 – Apr 2022
- Directed and mentored a team of 15 student ambassadors, coordinating promotional activities and collaborations with leading brands.
- Managed team performance to successfully achieve all campaign objectives.

Web Developer Intern | Student Hut – Remote   Apr 2021 – Jun 2021
- Collaborated with a cross-functional development team to enhance web applications.
- Contributed to the design and implementation of new features within a remote agile environment.

Projects

Bone Age Estimation Using Deep Learning in Pediatric Radiology
- Developed a Deep Neural Network (DNN) model in MATLAB to automate and accurately estimate bone age from pediatric X-ray images, improving diagnostic efficiency.

- **Technologies:** MATLAB, Deep Neural Networks (DNNs)

Detection of Diabetic Retinopathy Using CNN
- Engineered a Convolutional Neural Network (CNN) in Python to detect Diabetic Retinopathy and classify its severity from retinal fundus images.
- **Technologies:** Python, Convolutional Neural Networks (CNN)

Movement Recognition
- Implemented a Python-based algorithm using OpenCV to analyze video frames and track the movement of targets within a video stream.
- **Technologies:** Python, OpenCV

Smart Attendance System
- Developed an automated attendance system using Python and OpenCV that leverages facial recognition against a pre-registered database.
- **Technologies:** Python, OpenCV

Technical Skills

- **Programming Languages:** Python, C++, C, SQL, HTML, CSS, JavaScript
- **Machine Learning/Data Science:** Deep Neural Networks (DNN), Convolutional Neural Networks (CNN), Recurrent Neural Networks (RNN), OpenCV, Matplotlib
- **Development Tools:** MATLAB, Git, GitHub
- **Concepts:** Full-Stack Development, Software Development Life Cycle (SDLC), Agile Methodologies, Data Structures, Algorithms, Database Management, Cyber Security (NIST, GDPR, ISO 27001)