Pratham Mishra

Software Engineering

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Introduction

Driven computer science student dedicated to bridging the gap between hardware and software solutions. Passionate about integrating complex systems and leveraging technology to solve challenges efficiently. A collaborative team player with strong communication skills, adept at working with diverse groups to achieve goals and meet deadlines effectively.

Expertise

C/C++, Python, Streamlit, Pandas, React.js, Socket IO, Full-stack Development, Express, Node.js Mongoose, Cron Jobs, Next.js, Typescript Tailwind CSS, Git & GitHub, Team Management, Leadership, Orating, F1.

Work Experience

Cyber Security Intern, THECYBERHOST

Jul 23' - Aug 23'

- Conducted comprehensive Android Penetration Testing, gaining hands-on experience in identifying and exploiting vulnerabilities within mobile systems.
- Participated in knowledge-sharing sessions and workshops to deepen understanding of cybersecurity fundamentals and emerging threats.

Member of Finance & Corporate Affairs, Entrepreneurship-Cell AUR

Jan 23' - Mar 23'

- Orchestrated the financial planning and management for all major events hosted by AUR's Entrepreneurship-Cell, ensuring effective allocation of resources and adherence to budgetary constraints.
- Cultivated strategic partnerships with external companies, primarily focusing on securing sponsorships to support the organization's initiatives.

Education & Grades

Bachelor of Technology

Amity University Jaipur, Rajasthan
(major) Computer Science and Engineering
(minor) Marketing Management
CGPA: 8.71/10.0 [5th]
GPA: 3.5/4.0 [5th]
2021-2025

12th

The Doon Valley Public School, Saharanpur
CBSE
Percentage: 94.8%
2021

10th

The Doon Valley Public School, Saharanpur
CBSE
Percentage: 88.2%
2019

Projects

DQRC (Data in Quick Response Code)

- A revolutionary lossless text compression and encryption algorithm.
- Achieved compression percentage of over 99% with no data loss.
- Beat 25+ already existed algorithms in plain text compression category in terms of time and compression percentage complexities.
- Research paper submitted in conference.
- Tech stack: Written in Python.

Connext

- A full-stack meetings and events reminder application.
- Sends email notification using Simple Mail Transfer Protocol one-hour prior from the scheduled meeting time using CRON JOBS.
- Frontend is deployed on Vercel and backend is deployed on Netlify as a serverless-function. (https://connext-phi.vercel.app/)
- Tech stack: Next.js, Typescript, Tailwind CSS, Mongoose, Express, Node.js, CRON JOBS and nodemailer.

JSONweaver

- Program to convert .CSV data directly into a JSON response that can be used as an API within seconds.
- Tech stack: Written in Rust, used Rocket web framework for JSON and APIs.

Strings

- A real-time code collaboration application.
- An application that enables users to share, read and write code together in real-time.
- Frontend is deployed on Vercel and backend in deployed on Render. (https://strings-sage.vercel.app/)
- Tech stack: React.js, Codemirror, Socket IO, Node.js, and Express.

cPulse

- A WhatsApp chat analyzer.
- An application that can be used to analyze one-to-one or group chats from WhatsApp.
- Statistics will tell things like total messages, media shared, monthly and daily timeline of chats, activity map of most busy days and most busy months, most common words used etc.
- Application is deployed on Streamlit Cloud. (https://cpluse.streamlit.app/)
- Tech stack: Python, Pandas, and Streamlit.

Achievements

- Got selected in Amity University, Rajasthan as a Fast Track Admission Scholar with 100% Academic Scholarship.
- Awarded as the Best Human for Presidency Role in Model United Nations award for 3 years in my school.
- Awarded as the House Captain of the school because of my academic results.

Co-curricular Activities

- Played National Level Under-17 soccer organized by Central Board of Secondary Education as CBSE Clusters.
- Got selected in Florida State University and shortlisted in Brown University as a transfer applicant.
- Automated Microsoft Reward System in Edge browser using Python and PyAutoGUI.