M Prashant Rao

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Summary

Computer Science and Engineering student with experience in full-stack development, cloud services (AWS), and machine learning. Skilled in Python, JavaScript, Docker, Kubernetes, and scalable backend systems. Eager to contribute to real-world projects through internships or entry-level roles in software engineering, DevOps, or data engineering.

Technical Skills

- **Languages:** Python, JavaScript, C, SQL
- **Web/Frameworks:** HTML5, CSS3, Node.js, Express, Next.js, REST APIs
- **DevOps/Cloud:** AWS (EC2, S3, Lambda, DynamoDB), Docker, Kubernetes, CI/CD
- **Data/ML Tools:** MongoDB, MySQL, Kafka, Spark, Hive, scikit-learn, OpenCV

Professional Skills

- Strong collaboration in team-based software projects using Git
- Time management and multitasking across academic and tech projects
- Critical thinker with an analytical approach to debugging and optimization
- Effective communicator with proven presentation and reporting skills

Education

CMR University, Bengaluru	Sept 2022 – Jun 2026
B.Tech in Computer Science and Engineering (CGPA: 8.24/10)	
Kendriya Vidyalaya, Durg (C.G)	
*Class XII (CBSE)	91.2%*	*2021*
Kendriya Vidyalaya, Durg (C.G)	
*Class X (CBSE)	90.8%*	*2019*

Experience

InternPe	July 2024 – Aug 2024

Web Development Intern (Remote)
- Completed a 4-week virtual internship focused on modern front-end development practices.
- Built and styled responsive UI components using HTML, CSS, and JavaScript.
- Gained exposure to real-world development workflows and collaboration in a remote team setup.

Projects

E-commerce Website | Front-End Developer with Minor Backend, HTML, CSS, JavaScript, Node.js
- Built a responsive multi-page e-commerce website with dynamic product listings, filter dropdowns, and animated carts using HTML, CSS, and JavaScript.
- Integrated basic backend functionality with Node.js to simulate product data handling and cart logic.
- Enhanced user experience with clean design, smooth navigation, and cross-device responsiveness.

Flappy Bird AI | ML Developer, Python, NEAT, Pygame
- Improved AI gameplay success rate by 60% by developing an autonomous Flappy Bird agent using NEAT.
- Monitored and visualized training progress using Matplotlib for better performance tuning.
- Reduced manual testing effort through simulation-based evolution cycles.

Rock Paper Scissors AI | Developer, Python, OpenCV, Streamlit
- Achieved 90%+ accuracy in gesture recognition using MediaPipe and OpenCV for real-time hand tracking.
- Improved AI adaptability using decision tree and frequency-based models to counter user strategies.
- Containerized and deployed the game on cloud using Docker and Render with persistent ML model state.

Achievements and Certifications

- SOF 7th International Mathematics Olympiad – Country Rank: 3508
- NCC 'A' Certificate – Demonstrated discipline, leadership, and civic responsibility
- Completed Full Stack Web Development (Udemy) – Built projects using React, Node.js, and MongoDB