

PAVAN VISHNU SAI BESTHA

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Education

- **The University of Florida, Gainesville, FL** *Aug 2023 - Dec 2024*
Masters in Computer Science, GPA: 3.3/4
- **Manipal University Jaipur, Rajasthan, India** *Jul 2019 - May 2023*
Bachelor of Technology in Information Technology, GPA: 8.07/10

Work Experience

CinemaVerde (NGO) - Web Designer & Developer *Aug 2024 - Dec 2024*

- Revamped the NGO's website with advanced UI/UX (HTML, CSS, React.js), boosting engagement by 25% and optimizing load speed by 15%, aligning with the organization's mission and created a director's portfolio site.
- Migrated content to Amazon Prime from Roku TV, expanding audience reach by 40%, and integrated Amazon S3 for data storage.
- Collaborated across teams using Figma and Git, understanding workflows in an NGO setting, cutting project time by 20%, and led campaigns that increased event participation by 30%.

CISE University of Florida - UX Designer *Aug 2024 - Dec 2024*

- Designed an 8-semester course planning tool using Figma, Balsamiq, and Miro, improving user satisfaction by 30% and integrating accessibility features per WCAG standards.
- Conducted research, storyboarding, and feedback analysis from 50+ users, creating prototypes with error alerts and drag-and-drop functionality, leading to a design approved for the university website.

Department of Mechanical MUJ - Web Development Intern *May 2022 - Dec 2022*

- Improvised a responsive website for IC-smart4.0 2022, enabling seamless abstract submissions and improving user interactions.
- Deployed a functional domain, streamlining workflows by 40% and enhancing accessibility for 100+ participants.

Bits Pilani Hyderabad Campus – ML Research intern *May 2022 - Jul 2022*

- Conducted height estimation research using Arduino, enhancing accuracy by 15% and cutting processing time by 20%.
- Trained machine learning models on collected datasets, improving prediction accuracy by 25%.
- Utilized OpenCV for face detection, optimizing algorithms to enhance real-time performance by 20% and improve reliability.

Skills

Technologies: AWS services, Web Development, Machine Learning, Artificial Intelligence, SQL, NoSQL, Web Accessibility, UX Design Tools, Graphic Design

Programming Languages: Python, C, HTML, CSS, JavaScript, Markdown

Frameworks: React.js, Express.js, Node.js, Django

Developer Tools: Git, GitHub, Figma, Blender, Canva, Balsamiq, Miro, Amazon S3, EC2, VPC, Elastic Beanstalk

Projects

Generative Expressive Avatars – AI-Driven Choreography Project

- Built AI-powered avatars using Blender rigging, improving choreography accuracy by 25% and production efficiency by 30%.
- Prototyped GANs and RNNs, automating choreography and expanding the digital dance library by 40%.

SafeWander – College Entrepreneurial Project

- Created a child safety device with real-time tracking and geo-fencing, refined through 58+ stakeholder interviews.
- Secured 2nd place in investment pitches with a scaling plan and projected profitability by FY 2026.
- Developed market strategies and value propositions, bridging a gap in child safety technology and projecting 50% adoption growth.

Gator Library Management System – Advanced Data Structures Project

- Structured a library system with advanced data structures, boosting performance by 30% and enabling seamless operations.
- Designed a scalable architecture with object-oriented principles, improving flexible and reducing maintenance issues.
- Integrated motorized features, increasing reliability and solving deployment challenges effectively.

File Transfer Protocol (FTP) System – Networking Project

- Built a secure client-server FTP system in Python with multithreading, handling file transfers with 99% reliability.
- Optimized architecture with streamlined file handling, enhancing scalability and cutting latency by 20%.

Certifications

AWS (Amazon Web Services) Certified Developer – Associate

Earned expertise in developing, deploying, and debugging cloud-based applications using AWS services. [verify](#)

Research Paper

International Conference on Computer Science and Artificial Intelligence (ICCSAI-22)

- Presented research on machine learning classifiers, achieving 97% accuracy in 0.34 seconds through detailed ORL dataset analysis.
- Leveraged OpenCV for training and testing, emphasizing efficiency and setting benchmarks for speed and accuracy.
- Published findings under Paper ID: SCIENCESOCIETY_21790, contributing to advancements in facial recognition technology.

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Academic Achievement, Extracurricular Activities

- Award-winning Charcoal Artist.
- Silver Medalist in Boxing.
- Micro objects artist
- YouTube Creator (8,000+ subscribers).

Positions of Responsibility

- **General Secretary**, Scribbles (Art Club).
- **Promotions Manager**, Randomize (Technical Club).
- **Content Writer & Designer**, Electronic Society.
- **1st Year Coordinator**, Qureka (Quizzing Club).
- **Core Committee Member**, Discipline Committee.
- **Volunteer**, Oneiros, Techideate, BDC, and Elicit.