

Sahana Ramesh

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Experience

Hewlett Packard Enterprise Software Engineer I

Bangalore, India
August 2023 - Present

- Designed and developed internal dashboards using React.js, Material UI, and Flask to enhance data visualization and accessibility.
- Conducted usability testing and implemented improvements to optimize the user experience of cloud storage solutions.
- Launched a dashboard utilizing **Flask and Dash framework in Python** to visualize VDBench IO workloads, achieving a 25% reduction in manual effort by streamlining performance metric interpretation through intuitive data visualization.

Research and Development Intern

January 2023 - July 2023

- Pioneered a responsive dashboard to view, analyze, and report platform performance results utilizing **React.js, Material UI, Node.js, Express.js, and PostgreSQL**, transforming a command-line interface to an interactive UI tool that enhanced efficiency for 20+ system engineers and enabled intuitive user interactions.

Engineering Intern - Summer Internship

Remote

GrowthPal Technologies

June 2022 - August 2022

- Crafted responsive **React.js** functional components for presenting entity details, which enhanced user experience and information accessibility. Diagnosed and resolved **SCSS** bugs on the data analytics dashboard, ensuring usability for investment bankers and improving functionality.

Education

PES University

Bangalore, India
2019 - 2023

BTech, Computer Science and Engineering 9.68 GPA

Secured 10th rank in the department

Relevant Coursework: Database Systems, Web Development, Human-Computer Interaction, Software Engineering

Technical Skills

Programming Languages: Javascript, Python3, HTML5, CSS, SQL

Framework and libraries: React.js, Material UI, TailwindCSS, Redux Toolkit, Bootstrap, Typescript, Next.js, Node.js, Express.js

Design & Tools: Figma, AdobeXD, Jira, Confluence,

Publication

Real-time Fitness Activity Recognition and Correction using Deep Neural Networks

[Link](#)

CISS Conference, March 2023

- Engineered a user interface providing real-time pose recognition and corrective exercise feedback. Used **vector geometry with Mediapipe** and experimented with GAN, Conv-LSTM, and LSTM-RNN architectures to achieve up to 97% accuracy. Overcame challenges of occlusion and labeled data scarcity.

Teaching experience

Teaching Assistant, Human-Computer Interaction

PES University

August 2022 - November 2022

- Produced AV summary tutorials demonstrating **wireframing and prototyping methodologies** using **Figma**, aiding 3rd-year undergraduate students. Facilitated learning of **the design process** with the help of case studies.

Programs and certifications

- **Completed Google UX Design Certification** in August 2023 and created 3 user experience case studies using Figma and the design process through the learnings in the program's 6 courses.
- Participated in the Catch Them Young program for Hewlett Packard Enterprise to build an AI Chatbot for Enterprise Customer Support—integrated login functionality with **Rasa Open Source** and UI of the chatbot with React.
- Storyteller and content creator on Instagram. **Winner of Nikhil Kamath's WTF Fund for Content Creator**

Academic projects

Itihas – Art History Application

[Link](#)

- Designed a multilingual art gallery app to provide users with audio stories and visual aids about artworks.
- Conducted user research with 5 individuals, identifying key pain points and developing user personas.
- Created paper prototypes, wireframes, and high-fidelity mockups in Figma.
- Integrated accessibility features, including screen readers and high-contrast UI elements.

Paisa Monito – Money Management App

[Link](#)

- Designed an intuitive expense tracker with visual analytics to help users manage their spending habits.
- Conducted user interviews and built an Empathy Map to inform feature development.
- Developed categorization and budgeting features with intelligent alerts for overspending.

Medico – Medicine Reminder App

[Link](#)

- Designed an app to help users track and manage prescription medication schedules.
- Conducted usability studies with a low-fidelity prototype and iterated based on user feedback.
- Integrated features like voice search, reminders, and multilingual support.

Achievements

- **Co-founded PlannAR**, an event design application, **selected for the state-level round in Chunauti 2.0**, an entrepreneurship competition hosted by the Government of India.
- Won **2nd place in the Gutsy Entrepreneur** contest, an innovation and entrepreneurship contest held by PES University, for creating the **business model canvas and designing Book It**, a peer-to-peer book lending application.
- Completed **100 days of UI challenge with Figma**
- **Co-founded Plexus**, an **Alumni networking** CSE club at PES University.
- I completed my 5th-year senior diploma certification in **Kathak**, an Indian classical dance form.