

PRERNA RAO V

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EXPERIENCE

Core Team & Founding Member

Sitara Akka Foundation, Bangalore, India

Jan 2019 – Present

- Team Lead:** Innovated and created STEM teacher instruction kits for visually impaired students by curating and designing chapter-wise modules, resulting in custom kits for 150+ high school teachers teaching over 800 students.
- Team Lead:** Mentored 12 undergraduate students in creating a high school science curriculum by taking them through research methodologies, pedagogy, resources, and schedules, resulting in 34 curated chapters used to instruct students via YouTube.
- Tutored 10 children between ages 10-17 by designing foundational Math & English curricula resulting in improved performance, verbal and written communication, and an increased self-esteem among the children.

Software Engineering Specialist

GE Healthcare, Bangalore, India

Jan 2020 – May 2022

- Made clinical image viewing and manipulation more accessible through the web development of a zero footprint application, resulting in all members of a patient's care team being able to access patients' imaging data when necessary, and for employees across GE to access and manage customer and installed base data.
- Designed and implemented application and UI features, audit logging, translations, API portage, and 50+ bug fixes.

PROJECTS

- TurnTables - Creating a Custom Accessibility Toolkit**
 - Designed a system to provide event organizers with necessary tools and resources through attendee feedback and suggestions, resulting in accessible physical event spaces.
- AryaBota - Gamified Environment to Learn Programming:**
 - Developed a visual tool to introduce programming concepts to children through a workshop-based format by creating a gamified UI/UX and a domain-specific language with simplified syntax.
 - Published a research paper for this at *IEEE EDUCON2022*.
- Sitara Akka Foundation:**
 - Worked towards inclusive and accessible STEM education and 21st Century Skill Building for over 20k children from underserved communities in India.
 - Developed plans for organization growth, program management, volunteer outreach, and curating and piloting a psychological first aid kit for students.

EDUCATION

University of Washington, Seattle

Masters in Human Centered Design and Engineering

September 2022 – August 2024

PES University, Bangalore

B.Tech in Computer Science and Engineering

2016 – 2020

RELEVANT COURSES

- User-Centered Design
- Theoretical Foundations of Human Centered Design and Engineering
- Advanced Web Technologies
- Usability Studies
- Qualitative Research Methods
- Software Engineering

RELEVANT SKILLS

Design:

- Design Thinking
- Wireframing and Prototyping
- User Interface (UI) Design
- User Experience (UX) Design
- Accessibility
- Documentation

Research:

- Interviews and Surveys
- Secondary Research & Literature Reviews
- Observation
- Usability Testing
- Qualitative Research Methods

Development and Tools:

- Web and Full Stack Development
- Object Oriented Programming
- Agile & Lean Methodologies
- MS Office and Google Workspace
- Figma
- Miro
- Visual Studio Code