

Jyothis P

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Education

B.Tech in Computer Science and Engineering, 2017 – 2021 | Kochi, India
Cochin University of Science and Technology

- Cumulative GPA - **8.53 / 10.0**

12th standard in Computer Mathematics CBSE, 2017 | Adoor, Kerala
Kendriya Vidyalaya, Adoor

- Percentage: **96%**

Professional Experience

Research Intern, Trebuchet Systems Jul 2020 – present

- Experimented and bench-marked different skin-detection algorithms for mobile web based AR applications.
- Collaborated with senior members to develop a protocol DLDAR for dynamic distribution of compute and reduced data usage by 11x

Intern, Agrivator Technologies LLP Apr 2020 – Jun 2020

- Collaborated with senior leadership in designing a dynamic delivery system.
- Implemented the back-end system using nodejs.
- Submitted a research paper on Adaptive Personalized Federated Averaging for Automated Irrigation Systems.

Publications

Dynamic Load Distribution in web-based AR, 5th Jul 2021

International Conference on Artificial Intelligence and Virtual Reality (AIVR), Kumamoto, Japan.

The protocol facilitates methods for web-based AR by Dynamically provisioning compute between client and server, based on the device and network conditions to min-max latency and quality.

Projects

Physix.web (Major Project), Apr 2021

Web Browser based game engine

- Pioneered an open source real time 3D content creation platform for generating interactive immersive worlds and gaming environments.

AR Rakhi, AR based real-time rakhi experience Jul 2020 – Aug 2020

- Launched a platform that enables socially distanced users to design and share virtual AR rakhis.
- Developed a client-side wrist-detection algorithm using OpenCV.js, server-side rendering algorithm using ModernGL and built a pipeline enabling real-time AR experience.
- Platform attracted users all around the country on RakshaBandhan.

G.R.E.T.A (Mini-Project),

Jan 2020 – Mar 2020

Gesture Recognition Endemic Training Aid [↗](#)

- Developed a browser-based intuitive system to easily learn Sign Language.
- Identified ROI using edge detection with OpenCV.js. Hand Sign recognition was performed by a CNN model using TensorFlow.js.

Skills

Computer Vision

Image Processing

Nodejs

Django

OpenCV

Angular

Leadership / Achievements

Make-a-Ton, *Organiser*

Sep 2020

Make-a-Ton is widely regarded as the best college-run hackathon in South India and one of the most prestigious in the country.

Dhishna 2020, *Convener*

Feb 2020

Coordinated and planned entire event flow including sponsorships, partnerships, fund management, outreach, technical management, media interaction, selecting themes and events.

Innovators' Summit, *Co-Founder*

Jan 2020

Founded and organized a tech summit.

TEDxCUSAT, *Head of Technology*

Sep 2019

Led the technical operations of the event.