RAMKUMAR SRIDHAR

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Skills

- JS | HTML/CSS | Sass | NodeJS | React | Redux | OAuth | Middlewares | Express | Git | Mercurial | Webpack | Tailwind | Next.JS

Experience

Member Technical Staff   Zoho Corporation   04/2020 - Current

- Working as a Frontend developer developing client end interfaces, solving performance bottlenecks and occasionally designing API's.
- Implemented bundling of static assets using **webpack** to improve caching and faster file loading. Improved home page loading by reducing the initial load size and improving file caching which brought the loading time under 1.2 seconds.
- Improved overall application **performance** by implementing on demand and batch loading across the product, reducing the initial load time and overall DOM size resulting in **faster initial loading** and reduced server hits across the product.
- Implemented permission based reports and feature access across the product by allowing admin's to assign custom roles to users. Re engineered reports sharing and listing which resulted in increasing the speed by over 30%.
- Implemented **Entity Relationship diagram** generation using OGDF library and also further improvised it by using **webassembly** which resulted in reducing the generation time by over 150% for larger workspaces.
- Executed **preview thumbnail** generation for report previews using chrome headless and also in report exports in different formats.
- Implemented **client end performance logging** using performance API which made debugging and diagnosing performance bottlenecks.
- Was part of the core team that worked on securing WCAG-2.1 AA accessibility rating for the product and also in night mode support.
- Mentoring a team of 4 individuals, assigning tasks and conducting periodic reviews of their code and performance.

Associate Software Dev Robert Bosch Engg & Business Solutions Pvt Ltd 07/2019 - 04/2020

- Worked in ultrasonics based assistive car parking team, North American division
- Assisted in sensor data measurement and conversion for the Control unit of car
- Implemented **unit testing** of data conversion process and helped in **mainframe integration** testing
- Completely **automated** the sensor data conversion test flow, was used during pandemic remotely without any intervention.

Software Developer Intern   Ghost Vision(IIT Madras)   03/2019 - 06/2019

- Was part of an AR based application development team working in **image processing** and IMU sensor based position detection.
- Implemented image processing and **movement detection** for **frame based** deployment of unity rendered models in real time
- Integrated movement measurement unit (IMU sensor based) for **position tracking of mobile phone** / headset in real time.
- Initiated the frames processing module to **detect surface level features** using object detection algorithms

Education

Bachelor of Engineering   Anna University   07/2015 - 05/2019

- Majored in Electrical and Electronics Engineering
- Coursework projects : Reclaimer derailment prevention, Voice Controlled Home Automation, Congestion Control in Networks using Fuzzy logic

Higher Secondary Education Prince Matriculation Hr Sec School 05/2013 - 04/2015

- Major in Computer Science and Mathematics
- Scored 96.5% in the state level examination and was the department topper

Projects

- **E-Commerce (admin & user):** E-Commerce page for admins and customers with a list of features using React, Next.JS and tailwind
- **Spotify clone:** Spotify clone with playlists, album and track listing along with play pause and seek using React, Next.JS and tailwind.
- **Modern Portfolio:** Fully responsive portfolio page using React, NextJS, tailwind and Framer motion
- **Food delivery app:** Full stack food delivery app using React, express and firebase
- **Hoo bank landing page:** Fully responsive landing page for a payments company designed using React and tailwind

Mentorship

- Mentoring a team of 4, overlooking their performance and conducting code reviews in my current role at Zoho corporation.
- **Computer Science Tutor:** Helped junior students for interview prep and taught them basic DSA and JS concepts

Others

- Volunteered as an NSS cadet for teaching and cleaning of government village schools nearby Chennai
- Managed department symposium as Sponsor coordinator by indulging with sponsors and convincing them to donate for our symposium