

Roopesh. S

I am passionate about hardware and software engineering, particularly embedded systems, networking, cloud computing, the web, and LLMs. I am able to effectively self-manage independent projects as well as collaborate as part of a team.

EXPERIENCE

Open Source Software Developer Jun 2023 - Aug 2023

Google Summer of Code – Remote (Part-time)

- I worked on the implementation of crawlers to crawl from various datasets and pushed them to the Neo4j graph database using Python
- I created a plugin for seamless client-DB communication and efficient parallel data querying

Software Engineering Intern Jan 2023 - May 2023

Pando – Full-time

- I worked on an internal tool that increases the Customer Conversion Rate through visualizations that the Value Discovery Team uses
- I wrote a Geolocation service that reduces the response time by calling the OSRM API by 60% from its previous one
- I worked on the edge cases on optimization problems while loading and unloading truck scenarios

Embedded Systems Intern Aug 2022 - 1 month

Revoh Innovations Pvt. Ltd. – Full-time

- I worked with communication protocols like USART, SPI, and I2C
- Developed a frequency testing device with PWM on an STM32 microcontroller board to ensure desired BLDC Motor Controller output

EDUCATION

B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai

2019 to 2023: Bachelor of Technology (B.Tech) in Electrical and Electronics Engineering – CGPA 9

Don Bosco Matriculation Higher Secondary School, Chennai

2018 to 2019: HSC Tamil Nadu State Board Class 12 – 78.67%

2016 to 2017: SSLC Tamil Nadu State Board Class 10 – 91.40%

PROJECTS

Internet Health Report

- Developed a dashboard to visualize internet resources using charts
- Implemented crawlers to crawl from various datasets that are necessary to be visualized

Farm Well Water Prediction using ML – Coursework

We, a team of four, developed a time-series model and custom hardware to predict water level and volume in a farm well for the next 3 months

Conception – An Idea-sharing platform

Conception (Git-based CMS) is an idea-sharing platform where anyone can find a collection of ideas in every niche—built using Next.js and MDX

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Portfolio: [roopeshsn.com](#)

Blog - Hashnode: [roopesh](#)

SKILLS

Data Structures, Algorithms, C, Java, Javascript, Python, Typescript, React.js, Vue.js, Node.js, PostgreSQL, Kafka, MongoDB, Go, Docker

CERTIFICATIONS

Applied Industrial IoT – L&T Edutech, 2023

NPTEL Certification in Embedded System Design, 2022

Algorithms Specialization from Stanford University through Coursera, 2021

VOLUNTEER EXPERIENCE

Collaborated as a *Project Manager* with the *Crescent Technocrats Club* to create college software projects

Collaborated as a *Technical coordinator* with the *EEE Club* to provide technical competency for the club's workshops, and events

LANGUAGES

English - Professional working proficiency

Tamil - Native proficiency

INTERESTS

Reading books on Money management (*The Psychology of Money*) and Self-development (*Atomic Habits*)