

Brahmiraj Tharmapalan

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in Brahmiraaj Tharmapalan 🌐 Brahmiraaj Tharmapalan

Profile

Enthusiastic, innovative Software Engineer dedicated to creating user-friendly applications, passionate about staying updated on industry trends. Seeking full-stack role to deliver exceptional user experiences and contribute to project excellence through continuous learning and growth. With my skills and experience in full-stack development, I am confident that I can be a valuable asset to your team.

Experience

Associate Software Engineer

Neuronic Systems

Trincomalee, Srilanka

May 2024 – Present

- Face detection with a REAL-TIME database - A real-time attendance system using face recognition library and Firebase to encode, capture, and record attendance.
- Number Plate Detection with OCR - Annotated data trained using the YOLOv5 algorithm in Google Colab extracts text using OCR.
- Implementation of nature inspired mimic walking robot (spider bot)- I developed a spider bot using Arduino coding. Its movements are controlled by in-built coding. It has three servo motors for each leg, enabling three degrees of freedom.
- Implementation of IOT based garbage monitoring system - developed a garbage monitoring system coded in Nodemcu (ESP 8266) with the Arduino IDE and an ultrasonic distance sensor. Garbage level updates on the Thingspeak server every 10 seconds, and you receive an email when it comes to 90%.
- Brave thought 🌐 - Next.js, Express, MongoDB-backed dynamic forum system with secure Google OAuth authentication, Vercel-hosted for seamless user experience.
- Forum Verse - Role-based forum system (User/Admin) with registration, post creation, approval workflow, search, and admin privileges. Using React, Express, MongoDB, AWS EC2 Instance.
- Bookmark Manager - Using React, Redux, Redux-persist and Tailwind CSS, users can save links on the topic, like a book mark app.

Associate Software Engineer

BOTCALM (PVT)LTD

Matara, Srilanka

Oct 2023 – May 2024

- winlads - Australia's Premier Shopping Companion and Rewards Community. In there, I worked on the admin panel front-end, which was developed using React and Tailwind for state management using Redux, and the back-end was developed using the express.js framework, finally for the animation gsap and framer motion.
- Blockchain Wallet - It is a Chrome extension for a cryptocurrency wallet used to interact with the Ethereum blockchain. Basically, it's a wallet. Save users data and balances as ledgers created with Nextjs with Redis OM
- Additional works (landing pages)
1. Master-NFT 🌐 2. Winlad 🌐 3. Pili-me 🌐 4. Wood-Carving 🌐 5. Crypto 🌐 6. Law 🌐 7. Insurance 🌐

Software Engineer Intern

DOCKYARD TOTAL SOLUTIONS (PVT)LTD

Colombo, Srilanka

Mar 2023 – Oct 2023

- HR management System - Develop a web application using React, Redux, ASP.NET, and MSSQL for candidates to apply, staff to request vacancies, and admin to manage interviews seamlessly.
- Forum Verse - Role-based forum system (User/Admin) with registration, post creation, approval workflow, search, and admin privileges. Using React, Express, MongoDB, AWS EC2 Instance.

Skills

PROGRAMMING LANGUAGES

- Javascript, Typescript, Php, Python

JS FRAMEWORK & LIBRARY

- React, Next.js, Redux, Express, node, Nest.js

MOBILE DEVELOPMENT

- React Native

CSS FRAMEWORK

- Tailwind CSS, Bootstrap, Material UI, Daisy UI, shadcn UI, Aceternity UI

Database management

- MongoDB, MSSQL

CLOUD DEPLOYMENT

- AWS, Firebase, vercel, Render

Education

SLTC Research University (Higher Education)

Mar 2019 – Nov 2023

BSc in Electronics and Telecommunication Engineering

- **Coursework:** Programming Fundamentals, Data Structures and Algorithm, Machine Learning and Data Mining, Software Engineering Project, Management Information Systems, Internet of Things and computer architecture

Other Qualifications

- IESL - Student Membership - (08-02-2022)
- IEEE - Membership - (01-03-2020)
- AWS Academy Cloud Foundations (2023).
- SLASSCOM Academy Cloud Engineering Bootcamp (2022).
- Completed Kick-Starter on the Embedded System Design course conducted by the University Of Moratuwa (2021).
- Completed Circuito'21 — PCB Designing Workshop conducted by IEEE Industrial Electronics Society of Sri Lanka Technological Campus. (2021).
- Completed IOTLOGY-Webinar on introduction to the Internet of Things conducted by IEEE Industrial Electronics Society of Sri Lanka Technological Campus (2021).
- Completed ARDIOFLO organized by IES CHAPTER OF THE IEEE STUDENT BRANCH OF SLTC.

Key Skills and Competencies

- A self-motivated individual with strong leadership skills and excellent command in communication
- Processing a quality customer handling ability as well as customer complaints
- Go- getter attitude that helps to achieve the best outcome for projects
- Fast learning ability when it comes to software as well as the company's process of conduct

References

Mr. Hirushiharan Thevendran
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Neuronic Systems,
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