# Shamith D Rao

shamith2709@gmail.com | +91 8197100734 | Bengaluru, India

#### CodeChef | LinkedIn | Portfolio

# **EDUCATION**

Vellore Institute of Technology, Vellore

Bachelor's Computer Science

CGPA: 9.3

April 2019- July 2023 Vellore, Tamil Nadu

# **EXPERIENCE**

#### CAPITAL QUANTS SOLUTION | Front-End Intern

Bengaluru, India | June 2022 - Present

- Building the Frontend with React for microservices established by the backend team.
- Revamping the existing frontend written in HTML, CSS, JS to React.
- Working with the backend team to make wireframes and subsequently code the front-end.

#### FITMEDIK | Freelance | LINK

Bengaluru, India | April 2022 - May 2022

- Developed the working MVP of the mobile app using React-Native as frontend and Mongo DB for Backend
- The MVP consisting of 14 Screens was pitched to bag clients from the several hospitals across
  US and UAE

#### EDUFUND | Front-End Intern | LINK

Bengaluru, India | Jan 2022 - March 2022

- Worked on the core frontend made with Next.js.
- Developed 6 fully functional workflows (~6 screens each), 38 React Components and integrated 21 APIs in a period of 30 DAYS

#### Stealth Start-up | Developer Intern | LINK

Bengaluru, India | May 2021 - Dec 2021

- Developed 18+ fully functional and reactive components using 28 different React Libraries
- Wrote 70+ SQL queries & Performed Unit testing using Jest and React Testing library
- Worked with AWS services like DynamoDB, Lambdas, and used Azure to track team progress

## PROJECTS

## FITMEDIK (Frontend + DB)

React Native + Node.js + MongoDB

Fitmedik is an IoT ecosystem for hospitals to monitor and manage burnout of healthcare workers in real-time. It creates a data driven Digital Twin of the healthcare workers and simulates it to predict health vulnerabilities.

#### AUTO-CAPTCHA-LOGIN (Frontend) | LINK

JS + Python + AWS

This is a chrome extension built for VIT-Vellore Login. It uses basic DOM manipulations on the frontend and an OCR engine on the backend hosted on AWS that translates the captcha image to return characters that is then injected into the input on the Login Page.

#### SAHAYATA (Frontend) | LINK

React + Flask + MongoDB

Sahayata is a digital payment solution that intends to digitize the SHG payment operations with its unique disruptive offline payment solution. Sahataya helps women belonging to rural population connect to their local SHGs and initiate loans involving low interest rates.

## **SKILLS**

Programming Languages
Libraries/Frameworks

C/C++, Java, HTML, CSS, JavaScript, Python Basics, SQL React JS, React-Native, NEXT.js, jQuery Basics, Node.js basics

Tools / Platforms

MySQL Workbench, Postman, Android Studio, Jupyter, AWS basics, VS

code

Databases SQL, Mongo DB

# **PUBLICATIONS**

## ADAPTIVE REAL-TIME SCHEDULER FOR EMBEDDED OS

IEOM - SCOUPUS INDEXED

Adaptive Multi-level Queue scheduling, that will maximise the CPU utilisation and cater to the energy efficiency of the embedded system. This scheduling algorithm will be useful in the embedded devices which are using a fixed battery.

# ACHIEVEMENTS/ EXTRACURRICULARS

- 4 Star CodeChef Coder
- Global rank 119 in CodeChef April Long Challenge 2021
- 2<sup>nd</sup> place at APP-titude Hack by ACM-VIT 2021
- 2<sup>nd</sup> Place at Women Techies Hackathon at VIT 2022
- 2<sup>nd</sup> place at Technica Hack by ISTE VIT 2022
- 3<sup>rd</sup> Position at EnPhyThon Physics Hack
- Delhi Zone Silver medal in Badminton
- Active Member of Ayuda (NGO) focusing on helping the unprivileged children and other backward communities. <u>LINK</u>
- Interned at Ek Pahel (NGO) working for Child Education, Women empowerment & healthcare LINK
- Cleared German A2 Exam (Goethe-Zertifikat) with gut Grade and C1 Advanced with Proficient Grade