

Yogeshwar Murugan

Senior Blockchain Engineer

yogeshwar_1997@hotmail.com • [+91 9597855459](tel:+919597855459)
<https://www.linkedin.com/in/yoga07> • <https://www.github.com/yoga07>

Summary

Senior Blockchain Engineer with over 5 years of experience in designing and engineering decentralized computing technology in AGILE environments. Sound in Application and Product engineering, Systems Engineering, Software Lifecycle, Algorithmic programming, and mission-critical Problem-solving backed by academic training in Software Engineering and Data Science. 'Change is the only constant' – Loves to stay current on the best practices in the industry.

Skills

Rust • High-performance Systems Engineering • P2P Networking • Consensus Algorithms • Tokenomics • Blockchain • Logic Programming • Protocol Development • CI/CD • Cloud Deployments • Test-nets releases

Work Experience

Blockchain Engineer

September 2022 – Present

Zenotta AG • Full-time

Remote

Technologies: Rust • Logic Programming • Protocol development • LLVM • AWS • Docker • CI/CD

- Research and development of the network's Data Protocol involving whitepaper development.
- Designed, implemented, and deployed intricate core network and blockchain modules from the ground up in Rust, which involves P2P network engineering, Multi-threaded Systems programming, Consensus algorithm development, Network APIs development and System performance optimizations.
- Spear-headed multiple upgrades and releases of the network on AWS which consequently opened the flood gates for the investors and community to take part in the test-nets. These upgrades primarily focused on improving the scalability and reliability of the network whilst maintaining performance.
- Encapsulating and packaging of client-run binaries into easily scalable, upgradeable, and distributable containers via Docker and bare-metal AWS nodes. These were used by the investors and community during test-net runs with a high-degree of success supporting multiple platforms.

Full-Stack Engineer: Decentralized Tech

May 2020 – Aug 2022

MaidSafe • Full-time

Remote

Technologies: Rust • Cryptography • Distributed systems architecture • Algorithm development • ELK Stack • Digital Ocean • CI/CD

- Designed, implemented, tested, and deployed decentralized networking and cryptocurrency features for the SAFE Network involving P2P networking, Data distribution and dispersion, Cryptography, and technical aspects of Tokenomics.
- Envisioned, implemented, and configured ELK servers and Beat services for test-nets that are hosted on Digital Ocean providing easy readability and solid insights on the network's stability and efficiency.
- Hosted and supported multiple public test-nets that are prominently used by a ~4000-member strong SAFE Network Community. Analyzed and presented insights to issues that the test-nets face on granular levels and provided resolutions for the upcoming iterations of the Network.

Front-End Library Developer: Decentralized Tech

May 2019 – Apr 2020 • 11 mos.

MaidSafe • Full-time

Chennai, India

Technologies: Rust • Distributed systems • Systems programming • Application architecture and development

- Worked on multiple **Client facing libraries**, designing and implementing **network communication modules and user facing APIs**. Redesigned a **multi-language bindings generator** that **parses native Rust APIs** to generate **FFI** (Foreign Function Interface) bindings for **C, C#, and Java**. This paved way for user of SAFE Network's developer community with various programming language backgrounds to easily use SAFE Network's Client APIs.
- Extensively **researched and implemented multiple flavors of data structures** that are used in the SAFE Network. Various semantics such as **CRDT** (Conflict-free Replicated Data Types), **Versioning** and **Immutability** were incorporated within those types making the network operations more **reliable, fault tolerant and versatile**.

Research Intern

May 2018 – Sep 2018 • 4 mos.

CSIR-CEERI • Internship

Chennai, India

Technologies: Python 3.x • MATLAB • Signal processing • Fractal Analysis

CEERI is a constituent laboratory of the **Council of Scientific and Industrial Research** under the **Govt. of India**. Worked as a part of a research team headed by senior scientists on **Fractal Analysis of Heart Rate Variability** which involved **collection and analysis** of approx. **~2000 ECG datasets** with **Python and MATLAB** involving **multi-Fractal analysis methods** which were later presented to **Samsung Electronics Co. Ltd.** by the organization.

Deep Learning Intern

Dec 2017 – May 2018 • 5 mos.

Nokia • Internship

Chennai, India

Technologies: Python 3.x • Tensorflow • Machine learning • Internet of things • Augmented reality

Implemented and delivered multiple machine learning projects, specifically on **Image Recognition** and **Object Detection Models** that aided the IC manufacturing and security teams. Notable projects are **PPE Kit recognition, Emergency exit obstacle detection, and AR machinery detection with an avg. accuracy of 85%**.

Mini-Projects

Real-time Sentiment Analysis and Visualization of tweets using Spark

Oct 2017 – Dec 2017 • 2 mos.

3 coworkers

Technologies: Apache Spark • Maven • Twitter API • ELK

A **Sentiment Analysis Tool** that picks up specified data from Twitter via provided hashtags and analyzes their sentiment. Sentiment for each tweet was calculated based on **AFINN** dictionary and the statistics were **visualized in real-time on a dashboard**. This project was created for **ITMR-HTC, Chennai**.

Voice Bot for Automating Loan Application and Intake

Sep 2017 – Dec 2017 • 3 mos.

3 coworkers

Technologies: RasaNLU • BotKit • AngularJS

A **voice bot designed for automating** loan application and intake processes. Drastically **reduced the man hours** spent doing this manually and the bot was integrated with the organization's website. This project was also created for **ITMR-HTC, Chennai**.

Education

Bachelor's degree: (B.E) Computer Science Engineering

Aug 2015 – May 2019 • 3 yrs. 9 mos.

Sri Venkateswara College of Engineering

Chennai, TAMIL NADU, India

GPA: 7.5/10

High school diploma: Physics, Chemistry and Math

Jun 2013 – May 2015 • 1 yr. 11 mos.

St Patrick's Anglo Indian Higher Secondary School

Chennai, India

Score: 90%

Accolades

- **Share Options** worth of **INR 50lakhs** (as of 22/09/2019) was awarded by **MaidSafe, Ayr, Scotland** under EMI as a recognition of performance during the period worked.
- 2nd Place among 52 contesting teams in an Inter-College Symposium for the project on "**Data Mining and Analysis using Hadoop and Apache Hive**"
- "**Certification of Excellence**" for the project "**Voice bot for Vehicle Loans**" by **ITMR- HTC, Guindy**
- Organized and conducted various events and workshops for "**INTERRUPT 2K17**" at **Sri Venkateswara College of Engineering**

Certifications

Data Analyst Nanodegree - Udacity

May 2018