Aravinth Manivannan

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Skills

Languages Rust, Python, TypeScript, Go, Bash, JavaScript, Java

Actix Web, WebAssembly, Django, React.is, Docker, PostgreSQL, SASS, Redis, Open API, Nginx, GraphQL, Gemini, OAuth, Zola, **Technologies**

JSON-RPC, Hyperledger Fabric

DevOps Docker, Designing micro-services, GitHub Actions, Travis CI, Netlify

Engineering Test-driven development, version control workflow, code review, systems designing

General skills Rapid leading, time management, team management, Linux Knowledge

Education _

Near Vijayawada - 522237, Andhra **VIT AP University** Pradesh, IN

BACHELOR OF SCIENCE IN COMPUTER SCIENCE, GPA: 7.83/10.00

present

Experience _____

Null (infosec) Chapter VIT AP, AP

CHIEF DEVELOPMENT OFFICER & TECHNICAL ADVISOR July 2021 - PRESENT

Webmaster

Women in Open Source(WiOS) VIT AP, AP

TECH LEAD July 2021 - PRESENT

Webmaster

mCaptcha Homepage

FOUNDER CEO March 2021 - PRESENT

- · Design and develop high-performance, horizontally scallable backend: Rust, Actix-Web, Postgres, Redis
- · Design and develop high-performance, lightweight, server-side rendered frontend: Sailfish, TypeScript, SASS
- Design and develop custom native Redis module
- Documentation
- Deployment and software distribution

batsense.net: self-hosted, privacy focused indie webring

Services OWNER WEBMASTER 2019 - PRESENT

- · Search engine
- Secure chat platform
- Tor node
- See legend for full list of services: https://batsense.net/services

Null (InfoSec) Chapter VIT AP, AP TECH LEAD October 2020 - July 2021

· Designed and built a Capture The Flag event for freshmen introduction event in under two weeks(Source Code)

Webmaster

Actix Web Project Code Base

- CONTRIBUTOR November 2020 - PRESENT • Documentation: migrated the project to intra-doc links
- Code recipes

Projects _____

Athena Source Code DEVELOPER August, 2021 - present · HTTP command and control framework • JavaScript based cross-platform payload · weaponized version of VS Code as proof-of-concept RAT **Actix Web Ecosystem libraries** DEVELOPER 2021 · Cache Buster: caching library written in rust • Actix Stateful Sessions: Redis based opaque session implementation **Redis Leaky Bucket native module** Source Code DEVELOPER June 2021 · active leak · supports cluster mode • supports persistence through RDB • High performance(see project's README) · all subroutines are tested **Damn Vulnerable Blockchain** Source Code DEVELOPER January 2021 vulnerable by design(attack scenario detailed in project's readme) • p2p blockchain implementation · in-built peer discovery service · Proof of Stake with coinage client library • 88% code coverage (as of January 17, 2021) Wagon Source Code DEVELOPER November, 2020 - present · High performance membership management platform • Free Software alternative to EventBrite • Follows the 12 Factor App recommendation • 91% code coverage (as of December 14, 2020) **Identity** Source Code DEVELOPER August 2020 - present · Identity and access management platform built for the IndieWeb · OpenID Connect based • Uses OAuth2.0 for third-party integration • Uses novel actor model based, proof-of-work DoS protection mechanism • Follows the 12 Factor App recommendation • 70% code coverage (as of December 14, 2020) · Performant, built with Rust **Hackers Union CTF** Source Code Oct 2020 · High performance CTF platform real time scorecard **IDS Matrix** Source Code DEVELOPER June 2020 • Light weight Intrusion Detection System for GNU/Linux Systems • Built on top of Matrix(a decentralised messaging service) Porting postmarketOS to Samsung Galaxy Tab E 9.6(SM-T561)(samsung-gtle36) Home Page **DEVELOPER AND OFFICIAL MAINTAINER** July 2020 Uses upstream Linux kernel · Display and WiFi works **Yify Torrents Wrapper** Source Code June 2020 DEVELOPER • NOTE: I don't support piracy, this is a project that I built for fun • Fetches data from Yify Torrents Schedules jobs on server for downloads Updates inventory • Provides an interface to stream content

Tracking Source Code

DEVELOPER

August 2019- January 2020

- IoT-based, cheap three-dimensional indoor positioning system
 Visual Range accuracy
 Easy deployment, uses existing infrastructure(WiFi) routers