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 _____

Pages - Static website deployment mangager Developer	Source Code November 2021
• Uses Git	November 2021
Can deploy builds directly from remote Git repositories Simple to deploy and use	
LibMedium - Privacy-respecting medium.com proxy	Source Code
DEVELOPER	November 2021
Light-weight no JS implementation Proxies assets like images and GitHub gists Extensively caches data for fast load times Faster than medium.com	
Kaizen - Privacy-respecting Anonymous Feedback Aggregator	Source Code
DEVELOPER	October 2021
Light-weight no JS implementation90% test coverage	
Athena	Source Code
Developer	August, 2021 - present
HTTP command and control framework Average of the control framework Average of the control framework	
 JavaScript based cross-platform payload weaponized version of VS Code as proof-of-concept RAT 	
Actix Web Ecosystem libraries	Collection
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 202.
 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 202.
 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) Light transfer.	Carrier Carl
Identity Developer	Source Code August 2020 - presen
 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 	August 2020 - presen
 Oses novel actor model based, proof-of-work bos 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
DEVELOPER	Oct 2020
High performance CTF platformreal 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)

DEVELOPER AND OFFICIAL MAINTAINER

Home Page July 2020

June 2020

- Uses upstream Linux kernel
- Display and WiFi works

Yify Torrents Wrapper Source Code

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