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 _____

libadmin - Django Admin implementation in Rust DEVELOPER	Source Code October 2021
Out of the box authentication	October 2021
Web framework agnostic	
Database agnostic	
 Actix Web support is implemented PostgreSQL and SQLite support is implemented via sqlx 	
Pages - Static website deployment mangager	Source Code
DEVELOPER	November 2021
Uses Git	
 Can deploy builds directly from remote Git repositories Simple to deploy and use 	
ibMedium - 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 implementation	
• 90% test coverage	
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	Collection
DEVELOPER	2021
Cache Buster: caching library written in rust	
 Actix Stateful Sessions: Redis based opaque session implementation Actix Auth Middleware: Backend agnostic session management middleware 	
Actix Optional Middleware: Supports conditional loading of middleware	
Redis Leaky Bucket native module	Source Code
Developer	June 202
active leak	
supports cluster modesupports persistence through RDB	
High performance(see project's README)	
all subroutines are tested Damn Vulnerable Blockchain	Source Cod
Developer	January 202
vulnerable by design(attack scenario detailed in project's readme)	Sandary 202
• p2p blockchain implementation	
in-built peer discovery service Proof of Stale with spings.	
Proof of Stake with coinageclient library	
88% code coverage (as of January 17, 2021)	
Identity	Source Code
DEVELOPER	August 2020 - preser
Identity and access management platform built for the IndieWebOpenID 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 CTFSource CodeDeveloperOct 2020

• High performance CTF platform

real time scorecard

IDS Matrix Source Code

DEVELOPERJune 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

DEVELOPER June 2020

• 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

DEVELOPERAugust 2019- January 2020

• IoT-based, cheap three-dimensional indoor positioning system

• Visual Range accuracy

• Easy deployment, uses existing infrastructure(WiFi) routers