Aravinth Manivannan

☑ realaravinth@batsense.net | 🎓 https://batsense.net | 🗘 realaravinth | 🏕 realaravinth

Skills

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

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

Zola, 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, Cooks a mean Biryani, Top-tier mosquito exterminator

Education _

VIT AP University Wehsite

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

Near Vijayawada - 522237, Andhra Pradesh, IN

2019 - PRESENT

November 2020 - PRESENT

present

Experience _____

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
- Integration for multiple frontend web frameworks(React, Svelte and Vanilla JS)
- Deployment and software distribution
- Documentation

Null (infosec) Chapter VIT AP, AP

CHIEF DEVELOPMENT OFFICER & TECHNICAL ADVISOR July 2021 - PRESENT

Wehmaster

Women in Open Source(WiOS) VIT AP, AP

July 2021 - PRESENT · Design and maintain official website

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

Services

OWNER WEBMASTER · Search engine

- Secure chat platform
- 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

- Documentation: migrated the project to intra-doc links
- Code recipes

Projects _____

GitPad - Self-hosted Git-powered, pastebin service Website and Source Code November 2021 - Present DEVELOPER · Heavy SSR, No JavaScript web interface • +90% code coverage · Syntax highlighting · PostgreSQL and SQLite support is implemented via sqlx ForgeFlux - API-space software forge federation Website and Source Code November 2021 - Present • Includes a Northstar- a DNS-like service for software forge federation • +80% code coverage · ActivityPub design • 00 Python design libadmin - Django Admin implementation in Rust Source Code DEVELOPER October 2021 • Out of the box authentication · 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 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 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** 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 2021 · active leak · supports cluster mode • supports persistence through RDB • High performance(see project's README) all subroutines are tested

• in-built peer discovery service • Proof of Stake with coinage client library • 88% code coverage (as of January 17, 2021) 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 DEVELOPER 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 · Uses upstream Linux kernel · Display and WiFi works **Yify Torrents Wrapper** Source Code 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 DEVELOPER August 2019- January 2020 • IoT-based, cheap three-dimensional indoor positioning system Visual Range accuracy • Easy deployment, uses existing infrastructure(WiFi) routers

Source Code

January 2021

Damn Vulnerable Blockchain

• p2p blockchain implementation

• vulnerable by design(attack scenario detailed in project's readme)

DEVELOPER