

Aravinth T M

STUDENT DEVELOPER, FREE SOFTWARE ACTIVIST

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Skills

Languages	Rust, Python, JavaScript, TypeScript, Java, Bash
Technologies	Actix Web, WebAssembly, Django, React.js, Docker, PostgreSQL, Nginx, GraphQL, OAuth, JSON-RPC, Hyperledger Fabric
DevOps	Docker, Designing micro-services, Github Actions, Travis CI
Engineering	test-driven development, version control workflow, code review, systems designing
General skills	Rapid learning, time management, team management, Linux Knowledge

Education

VIT AP University

BACHELOR OF SCIENCE IN COMPUTER SCIENCE, GPA: 6.83/10.00

Near Vijayawada - 522237, Andhra Pradesh, IN
present

Experience

Null (InfoSec) Chapter

TECH LEAD

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

VIT AP, AP
October 2020 - PRESENT

Actix Web

CONTRIBUTOR

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

Project Code Base
November 2020 - PRESENT

Projects

Damn Vulnerable Blockchain

LEAD AND SOLE DEVELOPER

- 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)

Source Code
January 2021

Wagon

LEAD AND SOLE DEVELOPER

- High performance membership management platform
- Free Software alternative to EventBrite
- Follows the 12 Factor App recommendation
- 91% code coverage (as of December 14, 2020)

Source Code
November, 2020 - present

Identity

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- 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

Source Code
August 2020 - present

Hackers Union CTF

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- High performance CTF platform
- real time scorecard

[Source Code](#)

Oct 2020

IDS Matrix

LEAD AND SOLE DEVELOPER

- Light weight Intrusion Detection System for GNU/Linux Systems
- Built on top of Matrix(a decentralised messaging service)

[Source Code](#)

June 2020

Porting postmarketOS to Samsung Galaxy Tab E 9.6(SM-T561)(samsung-gtle36)

LEAD AND SOLE DEVELOPER

- Uses upstream Linux kernel
- Display and WiFi works

[Home Page](#)

July 2020

Yify Torrents Wrapper

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- 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

[Source Code](#)

June 2020

Tracking

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

[Source Code](#)

August 2019- January 2020