Ruturaj Mohite

Undergrad at IIIT Bangalore

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EDUCATION

International Institute of Information Technology

Integrated Master of Technology in Computer Science

Bangalore, India

2019 - Present

EXPERIENCE

CircuitVerse

Developer and Maintainer

Sept 2020 - Present

☑circuitverse.org

- o Maintain security and simulator related code
- o Found and fixed multiple security vulnerabilities ranging from stored XSS to a full account takeover CSRF
- o Implemented and deployed rate site-wide rate limiting and mitigated Denial of Service attacks

CircuitVerse currently has over 80,000 users

Circuit Verse

Google Summer of Code Student

Jun 2021 - Aug 2021

☑circuitverse.org

- o Implemented the Testbench to automatically test circuits created on the simulator
- o Redesigned the interface for creation of tests for automated testing
- o Fixed multiple critical bugs on the simulator

PublicLab

Open Source Developer

Jan 2020 - Aug 2020

☑spectralworkbench.org

- o Migrated project to newer Rails version in planned incremental steps
- o Fixed CI/CD and containerization related bugs
- o Improved test coverage from 65% to 80+%

SpectralWorkbench currently has over 20,000 users

PROJECTS

very Simple Operating System Z

2020 - 2021

A simple 32-bit operating system for x86 systems.

- o Implemented a basic bootloader to switch into protected mode and load kernel into memory
- o Implemented VGA and keyboard drivers
- o Implemented a shell to interact with the kernel
- o Implemented a custom C standard library used across the kernel

Secure Elections

Web portal to host secure elections. It maintains the anonymity of the voter from all the other voters and candidates. The data integrity is preserved through a cryptographic hash check which prevents the votes in the database from being altered while preserving anonymity of the vote.

Used by over 500 users

Zense CTF 🗹 2020

A Jeopardy type Capture the Flag (CTF) containing challenges related to various domains of Information Security.

- Creation of Web Security challenges
- Production server management

SKILLS

- o Languages: Python, Javascript, C, C++, Java, Ruby, Bash, MySQL
- o Tools and Technologies: Linux, Docker, Git, Rails, Django, Nodejs, JQuery
- o Areas of Interest: Scalable Systems, Web and Network Security, Cloud Computing, Operating Systems

PORS AND ACHIEVEMENTS

- o Core Member of Zense and Zense Infosec
- o Top 20 In India on CTFTime
- o Dean's Merit List Scholarship recipient (2020)