Giridhar Prasath Rajendran

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EDUCATION

University of Maryland, College Park   College Park, MD, USA
M.Engg Cybersecurity   *Aug. 2023 – Present*

Amrita Vishwa Vidyapeetham   Coimbatore, TN, IND
B.Tech in Computer Science and Engineering   *July 2015 – June 2019*

EXPERIENCE

Member of Technical Staff - 2   Sep. 2021 - July 2023
VMware   *Bangalore, KA, IND*
- Architect and implement various control and data plane micro-services for providing RabbitMQ as a service.
- Develop an internal Request and task engine which provides retry and asynchronous execution capabilities
- Understand and enhance application modernization tool which migrates legacy application to cloud environments
- Refactored the process discovery and report generation features, integrated SAST into Gitlab CI workflows for monitoring application security
- Develop a CLI client application to communicate with our Application modernization tool

Security Software Engineer   July 2019 – Aug. 2021
Versa Networks   *Bangalore, KA, IND*
- Understand and enhance Versa security modules such as URL-filtering, Captive portal and User-identification by fixing critical/major bugs and writing highly maintainable code for service and major releases
- Debug memory and performance issues using Valgrind and Sanitizers(ASAN, TSAN) and promptly fix them.
- Add essential CLI commands to Versa OS which is critical for debugging during customer escalations
- Integrate Versa OS with Versa Analytics for analyzing VPN Client info and traffic

Graduate Engineer Trainee   Jan. 2019 – June 2019
Versa Networks   *Bangalore, KA, IND*
- Implement API gateway which integrates multiple services and handles authentication and access control
- OAuth for user authorization using KoaJS framework and installation script for managing project dependencies, understand core NodeJS concepts, REST and microservice architecture

PROJECTS

0xdeadfeed | *C, Protocol Buffers, MakeFile, Bash, Docker*   May 2019 – June 2019
- Message passing client-server application to understand epoll i/o multiplexing and Asynchronous tasks

OSS Contributor | *C, Python, Bash*   Feb 2019 – Present
- Contribute minor patches and report issues in JEmalloc, Linux, Rizin and CVE-bin-tool
- Implement Tcache parsing on per thread in rizin tool which helps to debug heap in multithreaded binaries.

CTF Contributor | *Binary Exploitation, Reversing, Web*   Feb 2019 – May 2020
- Author challenges and host DarkArmy CTF. Blog/write-ups for the challenges that are solved during CTFs

TECHNICAL SKILLS

Languages: C/C++, Python, Java, Assembly(x86, x64), Bash, Golang, JavaScript, MakeFile
Technologies: Systems Programming, Web development, DevOps, Binary Exploitation, Reversing
Frameworks: Spring Boot, Yang, Protobuf, Valgrind, Git, NodeJS, GDB, Ghidra, Cobra-CLI, Pwntools, Rizin

ACHIEVEMENTS

CTFTime: Rank 5 in the country and 101 globally, contributed by solving binary exploitation challenges
ICPC: Honorable mentions in ICPC Regionals 2017, 2018