Naman Arora

Q Gainesville, Fl □ +1 (352)-226-1217

▲ ABOUT ME

I am a masters student with special focus on GNU/Linux and systems level programming. Being a passionate developer, I have keen interest in all things Databases, Networking, Operating Systems and Cybersecurity. From peer to peer overlay DHT networks to concurrent RDBMS, I have built systems with maintainable and extensible code-bases and look forward to working with people who love to take on biggest engineering challenges.

⇔° SKILLS

Programming/Scripting

Popular Frameworks and Tools

Docker *** Ghidra ****
Git *** GDB ****

Platforms

GNU/Linux **** Windows ****
Android *****

EDUCATION

University Of Florida Gainesville, USA

August 2019 - May 2021

• Master of Science in Computer and Information Sciences, GPA 3.54/4.00

Relevent Coursework: "Database System Implementation", "Distributed Operating Systems",
 "Ethical Hacking and Penetration Testing", "Malware Reverse Engineering", "Blockchain: Optimization and Application"

SRM Institute Of Science and Technology Chennai, India

July 2015 - May 2019

• Bachelor of Technology in Computer Science and Engineering, CGPA 8.3/10.0

• Relevant Coursework: "Network Programming", "Database Management Systems", "Operating Systems"

PUBLICATIONS

A Relay for A SDN Controller

February 2020

- Indian Patent Application No. 202041008146 dated March 06, 2020
- Realtime communication between controllers within distributed SDN

An Attendance System and Method Thereof

December 2018

- Indian Patent Office Journal dated July 27, 2018, page No. 28230
- · System for attendance using facial recognition

</> PROJECTS

Malware Analysis Ongoing

• Ghidra, x64_dbg, Python, Radare2

https://github.com/r0ck3r008/malware-analysis

https://github.com/r0ck3r008/database-from-scratch

- Malware sample analysis reports with Ghidra/Rizin workspaces and memory dumps
- Currently analyzed sample families: Carberp (2008), AveMariaRAT (2020) and Ryuk (2020)

DFS: A Database Engine Written from Scratch

April 2020

• Linux, C++, Google Test, flex/yacc

• Database engine tested with processing 1GB or 7,000,000+ records

· Complete with aggregate, join and select functionalities

A Performance Benchmark of Image Encryption Algorithms

December 2019

• C, Python, Image Encryption, RISC-V, ARM, x86

https://github.com/r0ck3r008/arch-perf-benchmark

• Compares simulated RISC-V, ARM and x86 ISA

• Image encryption benchmark framework for RC4, Chirikov and Vigenere algorithms

Twitter Engine for Highly Concurrent Systems

December 2019

• Elixir, Phoenix Framework, Websockets

https://github.com/r0ck3r008/twitter-engine

• Distributed and Fault tolerant Twitter Engine tested with 100,000 simultaneous user processes

Tapestry: A P2P Distributed Hash Table Network

November 2019

• Elixir, Tapestry, Distributed Hash Tables

https://github.com/r0ck3r008/tapestry_p2p

- Resilient P2P network capable of connecting 2,000+ clients with reliable resource sharing
- Reliable resource sharing even with 20% failed nodes