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👤 ABOUT ME

I am a Masters student with 4+ years of experience in 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.

🎓 EDUCATION

University Of Florida *Gainesville, USA*

August 2019 - April 2021

- M.S. in Computer and Information Sciences, GPA 3.54/4.00
- Coursework: Database System Implementation, Distributed Operating Systems, Blockchain

SRM Institute Of Science and Technology *Chennai, India*

July 2015 - May 2019

- B.E. in Computer Science and Engineering, CGPA 8.3/10.0
- 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
- With co-inventors Ms. Vaishnavi Moorthy, Dr. Revathi Venkataraman, Nikhil Gupta

An Attendance System and Method Thereof

December 2018

- Indian Patent Office Journal dated July 27, 2018, page No. 28230
- With co-inventors Ms. M. Gayathri, Dr. C. Malathy and Rakshit Jain

</> PROJECTS

KademGo

Ongoing

- *Go, Kademlia, Distributed Hash Tables*
- Vanilla implementation of Kademlia DHT protocol in form of a Go Library

<https://github.com/r0ck3r008/kademgo>

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

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

A Performance Benchmark of Image Encryption Algorithms

December 2019

- *C, Python, Image Encryption, RISC-V, ARM, x86*
- Compares simulated **RISC-V, ARM and x86 ISA**
- Image encryption benchmark framework for **RC4, Chirikov and Vigenere algorithms**

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

Twitter Engine for Highly Concurrent Systems

December 2019

- *Elixir, Phoenix Framework, Websockets*
- Distributed and Fault tolerant Twitter Engine **tested with 100,000 simultaneous user processes**

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

Tapestry: A P2P Distributed Hash Table Network

November 2019

- *Elixir, Tapestry, Distributed Hash Tables*
- Resilient P2P network capable of **connecting 2,000+ clients with reliable resource sharing**
- Reliable resource sharing even **with 20% failed nodes**

https://github.com/r0ck3r008/tapestry_p2p

⚙️ SKILLS

Programming/Scripting

C	★★★★★	Go	★★★★★
C++	★★★★★	Rust	★★★★★
Python	★★★★★		

Popular Frameworks

Docker	★★★★★	Git	★★★★★
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Platforms

GNU/Linux	★★★★★	Android	★★★★★
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