

Vignesh S Rao

Curriculum Vitae

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Education

- 2016–present **Bachelor of Technology in Computer Science and Engineering,**
Amrita School of Engineering, Amritapuri.
Current CGPA : 9.49/10
- 2014–2016 **AISSCE, Navy Children School, New Delhi.**
Percentage Obtained : 94%
- 2012–2014 **AISSE, Navy Children School, New Delhi.**
CGPA Obtained : 10/10

Achievements

- 2018 **Awarded BlackHat Student Scholarship for Attending BlackHat Asia 2018,**
Cyber Security Conference.
Awarded a complimentary Academic Briefings Pass to attend Black Hat Asia 2018 at Singapore.
- 2017 **Rank 8 World wide in SEC-T CTF 2017 as a part of Team bi0s,**
Online CTF.
Conducted as a part of SEC-T IT security conference held in Stockholm, Sweden.
- 2017 **Rank 2 in CSAW CTF Qualifiers 2017- India Region, as a part of Team bi0s,**
Online CTF.
Conducted as a part of Cyber Security Awareness Week by New York University
- 2016 **Awarded 90% merit Scholarship at Amrita School of Engineering Amritapuri,**
Tuition fees waiver to pursue Bachelor of Technology .
Scholarship awarded based on performance in the University's Entrance Exam

Experience

- 2016–present **Member of Team bi0s, CTF Team, Amrita University, Amritapuri.**
Main focus on Binary Exploitation and Forensics. Team bi0s has been the top ranked team in India for the past two years, as per CTFtime.
- January 2017 **ISGW Hardware Hackathon, NSIT, New Delhi.**
The event was conducted by the Government of India and required the participants to break into a SCADA system which was running on a remote server.
- September 2017 **Workshop at Model Engineering College, Kochi, Kerala.**
Conducted a workshop, along with Team bi0s, based on Cyber Forensics, Android Security and Web Application Security.

Projects

- January 2018 **Software Implementation of a Dynamic Memory Allocator,**
Implemented a Dynamic Memory Allocator to understand it better.
Implemented segregated free lists with first fit search in C.
- December 2017 **Python Module for Assistance in File Structure Exploitation,**
Python Library to Emulate the C File Structure.
The module currently supports amd64 and i386 architecture's and can generate payloads for arbitrary read and write.
- December 2017 **Conducted InCTF along with Team bi0s,**
First International CTF by bi0s.
Recieved 25 CTFtime points - Highest for new CTF's
- 2017–2018 **InCTF Junior, Publicity and Challenge Development.**
Conducted along with Team bi0s, InCTF Junior is the first school CTF exclusively for Indian school students

Technical Interests

Binary Exploitation, Cyber Forensics, Automation of standard procedures

Technical skills

- Tools and Frameworks** GDB-peda, IDA-Pro (Only for Decompilation/Disassembly), Wireshark (basic), Pwntools, Volatility
- Languages** C, C++ (basic), Python, Java, x86 Assembly
- VCS** GIT
- Platforms** GNU/Linux.

Online Profiles

- [GitHub](https://github.com/vigneshsrao) - github.com/vigneshsrao
- [LinkedIn](https://www.linkedin.com/in/vigneshsrao/) - linkedin.com/in/vigneshsrao/
- [Blog](https://vignesh362.wordpress.com) - vignesh362.wordpress.com
amritabi0s.wordpress.com/author/vignesh362/