Venkkatesh Sekar

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EDUCATION

NIT, TRICHY (NITT)

B. TECH IN COMPUTER
SCIENCE AND ENGINEERING
Expected May 2018 | Trichy, India
Cum. GPA: 8.42

SHRISHTI VIDYASHRAM

Grad. May 2014 Vellore, India Graduating Percentage: 95%

LINKS

GitHub:// Venkkatesh Sekar Medium:// Venkkatesh Sekar LinkedIn:// Venkkatesh Sekar

INTERESTS

System Security Networking Ethical Hacking Cryptography Kernel Development

COURSEWORK

UNDERGRADUATE

Computer Networks
Proability Theory
Combinatorics and Graph Theory
Computer Architecture
Internetworking Protocols
Database Management Systems
Operating Systems
Algorithms & Data Structures
Mobile Computing
Discrete Structures
Automata and Formal Languages

INDEPENDENT

MIT 6.858 Computer Systems Security MIT 6.006 Introduction to Algorithms Cryptography and Network Security

SKILLS

PROGRAMMING

- C++ Pvthon Shell
- Ruby Javascript HTML/CSS

NETWORKING

• NS2 • Wireshark • Fiddler

SERVERS

• Apache • Nginx • YAWS

FAMILIAR

• SQL • gdb • Rails • Java

RESEARCH

A DYNAMIC APPROACH TO TREE BASED HASHING

Dr. Kunwar Singh | July 2016 - Present | NIT-Trichy, India

Designed a neoteric method of hash construction by computing hash-tree attributes dynamically to maximize efficiency in SHA3. The tree model adapts Sakura method and parallel processing is used to improve speed. The research is currently extended to take into account the number of processor cores used.

A NOVEL APPROACH TO LINK FARM THREAT DETECTION

Prof. Selvakumar | April 2016 – Present | NIT-Trichy, India

Conceptualized and designed a threat detection model to detect link farms which uses Black Hat Search Engine Optimization to deceive PageRank's optimum solution. The research thesis is currently ongoing under the guidance of **Prof S.Selvakumar**

EXPERIENCE

DELTA CTF GROUP | MEMBER

February 2016 - Present | NIT-Trichy, India

- Group of hackers taking part in various Capture the Flag events like Build the Shield - Microsoft, Google-CTF, Boston Key Party, ASIS, InCTF.
- Worked on security projects in areas like Web Exploits and Steganography.

 Actively eradicated many vulnerabilities and backdoors in the college network.

DELTA FORCE | SOFTWARE DEVELOPER + SYSTEM ADMINISTRATOR.

July 2015 - Present | NIT-Trichy, India

- Member of college's computing and programming club & college webteam.
- Developed and maintained the college site, tech-fests and Intranet sites.

DIPPER | SOFTWARE ENGINEERING INTERN

November 2015 - December 2015 | Delhi, India

- Developed a Global Navigation Satellite System (GNSS) based truck tracking system to support freight logistics between different Metropolitans of India.
- Built an API to populate custom Geofences, Points of Interest and compute real-time pit stops and routes to minimize travel cost.

OPEN SOURCE

VOICE-TUTOR July 2016 | github.com/thakkarparth007/voice_tutor

• Call based tutor capable of delivering audio lessons, progress tracking and clearing doubts. Supports English and Hindi.

BLOCKHASH Dec 2015 - Present | github.com/Spockuto/blockhash

• Multi-threaded SHA for large files optimizing the speed by over 50%.

FIX CLIENT Sep 2015

- Built an module to make fast and secure stock transactions using FIX protocol.
- Developed the module for a startup focussed in Netherlands.

AWARDS

2016	2nd	InOut, India's largest student based Hackathon, NIT Surat.
2016	Finalist	Capture the Flag, Microsoft Build the Shield
2016	223rd	Google Capture the Flag worldwide
2015	Linux Essentials	Linux Professional Institute, Toronto, Ontario, Canada
2014	1st	Mathematical Quiz VIT

2014 1st Mathematical Quiz, VTT
2011 4th 6th National Interactive Maths Olympiad, Eduheal Foundation
2006 1st Japanese Soroban Mental Maths National Competition