

Venkkatesh Sekar

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EDUCATION

NIT, TRICHY (NITT)

B. TECH IN COMPUTER

SCIENCE AND ENGINEERING

Grad. May 2018 | Trichy, India

Cum. GPA: 8.5 / 10

SHRISHTI VIDYASHRAM

Grad. May 2014 | Vellore, India

Graduating Percentage: 95%

LINKS

GitHub:// Spockuto

Medium:// @venkkateshsekar

LinkedIn:// venkkateshsekar

SKILLS

PROGRAMMING

Over 10000 lines

• C/C++ • Python • PHP

Over 5000 lines

• Java • JavaScript

Familiar

• HTML/CSS • Shell • Node
• Git • MySQL • MongoDB
• Docker • TeX

Web Frameworks

• Laravel • Flask

COURSEWORK

UNDERGRADUATE

Algorithms

Data Structures

Operating Systems

Networks

Database Management

Compilers

Artificial Intelligence

INTERESTS

Visualization

System Security

Cryptography

Kernel Development

EXPERIENCE

ORACLE | APPLICATIONS ENGINEER

June 2018 – Present | Hyderabad, India

- Part of Oracle Human Capital Management team.

UNIVERSITY OF SURREY | RESEARCH INTERN

May 2017 – July 2017 | Guildford, United Kingdom

- Developed a distributed password authenticated keyword search protocol to outsource and retrieve data securely with encrypted keywords.
- Worked under Dr. Mark Manulis at the Surrey Centre for Cyber Security.

MOZILLA WINTER OF SECURITY | OPEN SOURCE DEVELOPER

September 2016 – April 2017 | github.com/Sachin-A/Blake2

- Worked on BLAKE2 & ARGON2, a set of fast hashing libraries in C for Network Security Services (NSS). Tests were written using Google Test framework.
- NSS is a set of libraries designed to support cross-platform development of security-enabled applications like Mozilla Firefox and Google Chrome.

FESTEMBER | HEAD, WEB OPERATIONS

January 2017 – September 2017 | NIT-Trichy, India

- Responsible for building and maintaining the entire computing infrastructure that powers Festember (Int'l Cultural Festival).
- Complete API for web and mobile platform. Included Admin Panel for monitoring of participants, event statistics and sales of tickets.
- Recorded an unprecedented number of site hits (over 300,000) and app downloads (over 6000). Used by more than 13,000 students from various colleges.

PROJECTS

PAKS June 2017 - Present | github.com/Spockuto/paks

- Secure Multi-Server Web application to distribute and retrieve files based on encrypted keywords. Offers higher performance output than previous models.
- Built using NodeJS with Industry level Cryptographic standards (ECC-P384).

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

- Call based automated tutor capable of delivering audio lessons, progress tracking and clarifying doubts. Provides support to English and Hindi.
- Implemented with NodeJS using Google Cloud Services and Exotel API.

BLOCKHASH Dec 2015 | pypi.python.org/pypi/blockhash

- Multi-threaded SHA2 for large files optimizing the speed by over 50%.
- Implemented in Python and has been downloaded over 1200 times.
- Support to SHA3 was added at github.com/Spockuto/sha3-parallel.

REMOTE-PRINT Oct 2015 | github.com/Spockuto/Remote-Print

- Web app to support device agnostic intranet printing for NITT students.
- Implemented using Laravel and OpenLDAP.

AWARDS

2016 2nd

2016 Finalist

2016 223rd

2015 Linux Essentials

2014 1st

2011 4th

2006 1st

InOut, India's largest student based Hackathon, NIT Surat.

Capture the Flag, Microsoft Build the Shield

Google Capture the Flag worldwide

Linux Professional Institute, Toronto, Ontario, Canada

Mathematical Quiz, State Level, VIT

6th National Interactive Maths Olympiad

Japanese Soroban Mental Maths National Competition