

Kota Venkata Dinesh

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"Make the change that you want to see in the world."

Education

IITB (Indian Institute of Technology, Bombay)

Mumbai, Maharashtra

B.TECH IN COMPUTER SCIENCE AND ENGINEERING

July 2012 - May 2016

- Passing out with a CPI(CGPA) of 7.09

Narayana Junior College

Hyderabad, Telangana

INTERMEDIATE, BOARD OF INTERMEDIATE EDUCATION

May 2010 - May 2012

- Passed out with a Percentage of 94.5

Internships and Projects

Remote Rendering Pipeline for Android, SMARTRON

Bengaluru, Karnataka

GUIDE: ADNAN BADR, SR. SOFTWARE ENGINEER, SMARTRON

May 2015 - July 2015

- The basic idea behind the project is to remotely display the contents of the Smartphone on to another basic display, thus the Smartphone can be ripped of its display and use any display to view and Interact with the phone
- Worked on APITrace, an open source project, which is used to capture the frames which are being displayed and make a trace file out of it. The trace file created contains several frames, these frames are filled with EGL calls. This trace file data streamed over network and can be replayed on phone using Retracer app
- Started with System level Tracing and worked on the Source code to make it run on specific Android API level(API 19), version 4.4.2 and Ported it to work on Android version 5.0

R&D project: Mic App

IIT Bombay

GUIDE: PROF BHASKARAN RAMAN

July 2015 - April 2016

- Developed an Voice streaming Android App which is used as a means of communication between students and professors
- The app streams what is being said by the students to professor's smart phone, so that he/she can play through his/her mike

Android Malware Detection

IIT Bombay

GUIDE: PROF BERNARD MENEZES

Spring 2016

- Took a holistic approach to malware detection using only the manifest file
- Showed how permissions play an important role in an application and how a manifest file can be used to detect malwares without the high cost of environment setup and manual investigation

B.Tech Project-I: Vulnerabilities in Web Security

IIT Bombay

GUIDE: PROF BERNARD MENEZES

Autumn 2015

- Explored the working of different attacks that are possible on Web Applications such as XSS, HTML Injection, SQL Injection, CSRF, Clickjacking by exploring them in WAVDP

Food Ordering System

IIT Bombay

GUIDE: PROF. NANDLAL L.SARDA

Autumn 2014

- Designed and developed a Web portal for managing online orders
- Implemented entities such as Users, Sellers, Orders in Java and modelled them using E-R diagram.
- Deployed this using Apache Tomcat server with PostgreSQL as back-end and JSP as front-end

Simple HTTP Server

IIT Bombay

GUIDE: PROF VARSHA APTE

Autumn 2014

- Implemented a HTTP server which functions according to the standard HTTP protocol using socket programming in java which loads HTML file into a standard browser
- Implemented HTTP1.1 features like persistent connections, Keepalive timeout, queuing server, multi-threaded server

OS Simulator

IIT Bombay

GUIDE: PROF. DHANANJAY M.DHAMDHARE

Spring 2015

- Implemented different thread scheduling algorithms like round robin with time-slice, multilevel scheduling and kernel and user level threads in Geek OS
- Implemented an algorithm to detect deadlocks when many processes are requesting for resources

Compilers Project

IIT Bombay

GUIDE: PROF AMITABHA SANYAL

Spring 2015

- Designed a compiler for C-style programming language which detects syntactic and semantic errors and outputs an assembly file which uses minimum number of registers for arithmetic expressions
- The lexical analyzer was implemented using flex and the parser was implemented using Bison

Sudoku Puzzle Game

IIT Bombay

GUIDE: PROF AMITABHA SANYAL

Spring 2013

- Implemented Sudoku game where random puzzles are generated for solving, using PLT Scheme
- Implemented a verifier for correctness of partially solved Sudoku and a solver for solving a Sudoku

Project PACMAN

IIT Bombay

GUIDE: PROF ABHIRAM RANADE

Autumn 2012

- Recreated the classical game Pacman in Simplecpp (a C++ based package developed by IITB)
- Implemented the logic for different motions and decision making of ghosts for chasing the pacman

Scholastic Achievements

NATIONAL LEVEL

- 2012 **All India rank 243** IIT-JEE
- 2012 **All India rank 16** ISAT
- 2008 **Scholarship** NTSE by National Council of Educational Research and Training
- 2007 **All India Rank 6** South Indian Maths Olympiad
- 2007 **All India Rank 7** AMTI Maths Olympiad

STATE LEVEL

- 2007 **State Rank 2** APAMT(Andhra Pradesh Association of Mathematics Teachers) Olympiad
- 2008 **State Rank 3** SLSTSE by Unified Council

Key Courses Undertaken

- 2015-16 Introduction to Number Theory and Cryptography, Advanced Network Security and Cryptography, Computer and Network Security
- 2014-15 Computer Networks, Database and Information Systems, Artificial Intelligence
- 2013-14 Data Structures and Algorithms, Design and Analysis of Algorithms, Software Systems Lab

Position of Responsibilities

- 2013-14 **Department Sports Secretary** CSEA Council *CSE, IIT Bombay*
- 2014-15 **Department Joint Secretary** CSEA Council *CSE, IIT Bombay*
- 2014-15 **Department Mentor** CSE Department *DAMP, IIT Bombay*
- 2015-16 **Department Mentor** CSE Department *DAMP, IIT Bombay*
- 2015-16 **Department General Secretary** CSEA Council *CSE, IIT Bombay*

Extracurricular Activity

- 2012-13 Placed First in Freshiza Dram and Dance, a cultural Competition for First year Students
- 2013-14 Represented hostel 7 in kho-kho GC and placed 3rd
- 2014-15 Represented hostel 7 in kho-kho GC and placed 2nd