

# Vishal Chand

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## EDUCATION

### IIT ROORKEE

INTEGRATED DUAL DEGREE (B.TECH  
 + M.TECH) IN COMPUTER SCIENCE &  
 ENGINEERING

2010 - 15 | Roorkee, India  
 Cum. GPA: 8.602 / 10.0

### MAYUR PUBLIC SCHOOL

Senior Secondary March 2010 | Delhi,  
 India

## LINKS

Github:// [vish-chan](#)

LinkedIn:// [vishal-chand](#)

Quora:// [Vishal-Chand](#)

## COURSEWORK

### GRADUATE

Adv. Algorithms • Adv. OS  
 Adv. Comp. Arch. • Adv. DBMS

### UNDERGRADUATE

- Algorithms & Data Structures
- OS
- Compilers
- Discrete Mathematics
- Computer Networks

### INDEPENDENT

- Adv. Algorithms (Coursera)
- Machine Learning by Andrew Ng (Coursera)
- Applied ML in Python (Coursera)
- Deep learning Specialisation by Andrew Ng (Coursera)

## SKILLS

### PROGRAMMING LANGUAGES

Over 5000 lines:

Java • C++ • Python • Android

Over 1000 lines:

Javascript • C • C# • Perl

Familiar:

CSS • Swift (iOS) • MySQL

### AREAS OF INTEREST

- Application Development • System Design • Machine Learning and AI • Game Development • Performance Modelling • Bigdata and Cloud computing • Shift Left Testing

## EXPERIENCE

### EXPERITEST | ENGINEER

Seetest | October 2018 - July 2019 | Delhi, India

- Perform technical qualification of prospects by developing a thorough understanding of business and recommending appropriate Experitest Solutions.
- Development and execution of POCs, and competitive analysis for the new prospects.
- Worked with some of the Experitest's biggest customers in AMER and EMEA regions. Responsible for integrating Seetest into their product development environment, and migrating them from manual testing to CI/CD.

### QUALCOMM | ENGINEER

Linux Performance | June 2015 - August 2018 | Hyderabad, India

- Responsible for investigation of SW architecture involving analysis of important performance use-cases to find novel performance optimisation solutions.
- UX, boot time and system performance analysis of Qualcomm's own and competitors' chipsets.
- Responsible for SW performance execution activities on Qualcomm's wearable SOC product lines.
- **PROJECTS**: Prototyped Suspend to Disk feature on Qualcomm Snapdragon<sup>R</sup> 210 SOC using **Linux swsusp framework**.
- ML based CPU Workload Classifier using **scikit-learn Python**
- Boot Analyser, a utility for collecting and visualising low level system wide stats during device boot up for USE analysis of Android boot-up process in **Python**.

### QUALCOMM | SOFTWARE ENGINEERING INTERN

Memory Performance Team | May 2014 - July 2014 | Hyderabad, India

- Developed static and dynamic memory analysis tools for **Android** to generate specific workloads, collect critical memory info, and generate memory maps.
- Developed SeQurify, a geolocation based MAC Randomisation system for Snapdragon<sup>R</sup> SOC based Android devices.

### QUALCOMM | SOFTWARE ENGINEERING INTERN

Linux Audio Team | May 2013 - July 2013 | Hyderabad, India

- Designed and developed a PCM data logging system for **Qualcomm's** Linux audio driver using **Relayfs** to dump data from audio driver to user-space. Integrated this system in an Android app.

## THESIS

### PERFORMANCE MODELLING AND SCHEDULING OF MAPREDUCE JOBS IN CLOUD ENVIRONMENT | ML | Cloud

Computing | Java

Proposed a novel deadline aware scheduling algorithm for MapReduce jobs running on Amazon EC2 based cloud infrastructure. Also, minimised the cost of operation by intelligently deploying Spot instances. Implementation used Cloudsim framework.

## ACHIEVEMENTS

2013,17	<b>Recipient</b> , Qualstar Hall of Fame	Qualcomm
2014	<b>Winner</b> , IdeaQuest Competition	Qualcomm
2013	<b>Winner</b> , Spotlight Competition	Cognizance, IIT Roorkee