Vishal Chand

http://vishalchand.com
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EDUCATION

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE (IITR)

Integrated Dual Degree (B.Tech + M.Tech) in Computer Science & Engineering
2010 - 15 | Roorkee, India
Cum. GPA: 8.602 / 10.0

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 • Linux • Performance Modelling • Bigdata and Cloud computing • Shift Left Testing

EXPERIENCE

EXPERITEST | Engineer

Seetest | October 2018 - July 2019 | Delhi, India

- Worked with the Seetest Android team to develop new features and maintain existing features for cloud based Android devices in Seetest platform.
- Development and execution of POCs, and competitive analysis for the new prospects.

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^{R} 210 SOC using **Linux swsusp framework**.
- ML based CPU Workload Classier 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^{R} 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	**Recipient** , Qualstar Hall of Fame	Qualcomm
2014	**Winner** , IdeaQuest Competition	Qualcomm
2013	**Winner**, Spotlight Competition	Cognizance, IIT Roorkee