

Education:**The University of Texas at Dallas**

Aug'14-Dec'16

Master of Science (M.S.) in Computer Science

Punjab Technical University

Aug'10-Jul'14

Bachelor of Engineering (B.E.) in Computer Science & Engineering

Work Experience**Full-stack Developer Intern(InfoSec) (Angular, Node, Python) Walmart Labs, Sunnyvale**

Jun'16-Dec'16

- Creating web services for web applications and add reminder email features as cron jobs.
- Automating the ticket creation process through the JIRA API.
- Triggering and parsing Jenkins config.xml files to create a postgresSQL database inventory for jobs and related info.
- Won the first prize in Intern-One hackathon for a prototype of an android app.

Dev-Tools/Software Intern (Python, Ansible and Bash) Copart Inc, Dallas

May'15-Jan'16

- Bash FTP scripts for BTB clients (Samba server). Init scripts to manage the startup of applications.
- Python scripts to manage the logs and collectors on production servers on a centralized database.
- Web-pages to monitor health of resin and tomcat applications.

Mobile Engineer (Android, SQLite)

Oneinfonet Private Limited, India

Jan'14-Aug'14

- Built an Android App focused on to increase the 'women security' to eliminate molestation cases. This project used Java and SQLite on the Android Platform to send emergency messages.

Trainee Programmer (C#, HTML, CSS, MySQL) Web1technologies Private Limited, India

May-Jun'12

- Developed modules and stored procedures for an online car rental site using ASP.NET as the front end and MySQL database as the back end.

Certifications/Training:

- RHCE (Red Hat Certified Engineer), RHCSA (Red Hat Certified Administrator) Jan'14
- Statement of Accomplishment in Computer Networks course (Coursera) and CCNA (training). Oct'13

Technical Skills:

- **Languages:** Java, Scala, Python, Bash, C, C++
- **Web Stack:** HTML5, CSS, JavaScript, jQuery, AngularJs, Node.js, Flask
- **Operating Systems:** CentOS, Free BSD, Windows
- **Databases:** MongoDB, MySQL, Postgres, Cassandra
- **Frameworks** Hadoop, PySpark, OpenCV

Related Coursework:

Algorithm Design and Analysis

Implementation of Data Structures

Object Oriented Analysis and Design

Cloud Computing

Compiler Construction

Big Data Management and Analytics

Database Design

Video Analytics

Distributed Systems

Projects:**Distributed Systems Framework (Java and Bash / TCP and SCTP):**

Aug-Dec'16

Implemented message passing framework in JAVA using multi-threading and Maekawa's Quorum based Mutex protocol to avoid deadlocks.

Toy Language Compiler (C and C++)

Jan-Apr'16

Used flex and yacc (bison) to make three phases of compiler including tokenizing, AST generation for the language and machine code generation for a toy-language.

Implementation of Algorithms & Data-Structures (Java)

Jan-Apr'15

Implemented Skip Lists, Amazon Market Place (with careful usage in-built data-structures for optimization), Indexed Priority Queues using Prim's algorithm, finding critical paths in PERT graphs & dynamic programming solution for Tug-of-war problem.

Resource Virtualization (Python, Bash, Virsh):

Sep-Dec'14

KVM creation using Virsh, simulated Google workload by parsing the Google cluster data for the guest machines using Python, monitored the workload and algorithm that dynamically migrates the VM based on the monitoring statistics.

Connection between cloud and clients and syncing data (Java)

Sep-Dec'14

Developed an android app to initiate connections with the Amazon Web Services (AWS) and synchronizing data between the laptop, mobile and the EC2 (server) instance, using socket programming in Java.

UTD Comet Cruiser (Java, Python, Flask):

Aug-Dec'14

Implemented a UTD shuttle tracking android application, posting the co-ordinates of bus on the server (flask) periodically and the client fetching the co-ordinates of the server when required. Used Object Oriented GRASP patterns in the app for adding new routes.