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**Education:**

**The University of Texas at Dallas,** 3.53/4.0 Dec’16

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

**Punjab Technical University,** 3.77/4.0Aug’10-Jul’14

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

**Work Experience**

**Software Engineering Intern** *(Angular, Node, Python)* ***Walmart Labs, Sunnyvale*** Jun’16-Present

* Creating web services for web applications and add reminder email features as cron jobs.
* Automating the ticket creation process through the JIRA API.
* Other Micro services development using Flask and Jinja filters.

**System Engineer Intern (***Python and Bash)* ***Copart Inc, Dallas*** May’15-Jan’16

* Bash FTP scripts for BTB clients (Samba server). Python init scripts to manage applications.
* Scripts to automate Restful Api’s using JSON data and log analysis.
* Automated Jenkins (CI) using python’s ansible framework.

**Mobile Engineer *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 *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.

**Technical Skills:**

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| --- | --- |
| * **Languages**: Java, Python, Bash, C, C++ | * **Operating Systems:** CentOs, Free BSD, Windows |
| * **Web Stack**: HTML5, CSS, jQuery, Node.js,   Angular.js, Bootstrap | * **Tools:** WireShark, Nessus * **Frameworks** Hadoop, PySpark |

**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):** PresentImplemented message passing framework in JAVA using multi-threading and implemented Maekawa’s Quorum based Mutex protocol.

**Toy Language Compiler** *(C and C++)*Jan**-**Apr’16

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

**Emotion Recognition** *(C++ and Python)*Jan-Apr’16

Object Detection and Haar-like features in a video using open-cv libraries to determine the emotion of a person based on the muscle movements.

**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, 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):*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.

**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