

Syed Hamdan Sher

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SUMMARY

I am passionate about learning new technology and I focus on achieving goals. I have done web development, Android application development, developed Machine Learning Models, and played around Big Data technologies to learn more. I have huge interest in cloud computing and I am learning more about AWS and Azure services to actually build softwares which will revolutionize the infrastructure of the future IT industries.

EDUCATION DETAILS

Illinois Institute of Technology, Chicago, IL, USA (GPA : 3.5 / 4)

Aug 2016 – May 2018

Master of Computer Science (Graduation May 2018)

Coursework : Introduction to Parallel and Distributed Computing, Cloud Computing, Advance Database Organization, Advance Operating System, Theory of Computation, Mobile Application Development, Software Project Management, Enterprise Web Application Development, Online Social Network Analysis and UML

Visvesvaraya Technological University, Belgaum, KA, India

Sept 2012 – July 2016

Bachelor of Engineering in Information Science and Engineering

Coursework : Operating System, Database Management System, Adhoc Networks, Object Oriented Modeling and Design, Data Mining, Computer Networks, Computer Architecture, Data Structures, Algorithms, SE.

TECHNICAL SKILL-SET

Programming Languages : Python, C, C++, JAVA, JavaScript.

Web and J2EE Technologies : HTML5, JSP, Servlet, CSS, JSON, XML, JDBC, REST.

IDEs and Tools : Android Studio, Python Jupyter Notebook, Redshift Database Management Software, Oracle SQL developer, XAMP, Tableau, MS Project Professional, MS Visio Professional

Version Control : Git

Office tools : LibreOffice, MS Office, Google apps

Modeling Language : UML

Databases : MySQL, MongoDB

Cloud Platforms : AWS, Chameleon Cloud, AZURE

Operating Systems : Linux(Ubuntu) and Windows OS

Parallel and distributed programming : CUDA, Pthreads, MPI.

PROFESSIONAL EXPERIENCE

DATA ENGINEERING INTERN - MOTOROLA SOLUTION INC - CHICAGO, IL, USA

JUNE 2017 – AUG 2017

- Worked with real time MSI data to build a recommendation engine for recommending products
 - Applied data cleaning, feature engineering and machine learning to design regression models and recommendation engines.
 - Data Visualization with **Python Matplotlib** and **Tableau**. Interacted with Redshift Database Management System
 - Environment: **Python 3, Jupyter notebook, MySQL, Redshift DBMS, Tableau**.
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RESEARCH INTERN – OLD DOMINION UNIVERSITY – NORFOLK, VA, USA

JULY 2015 – AUG 2015

- Worked on Indoor Localization problem and algorithms.
 - Used Gyroscope, Accelerometer and compass integrated in a smart phone to take input reading for a path covered by a person holding the smart phone
 - Used the directions of the movement and a given map co-ordinates to plot path graph on the map using the input parameters from a smart phone.
 - Received "The best Technical skill"s certification at ODU, VA, USA.
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PROGRAM MANAGER - ILLINOIS INSTITUTE OF TECHNOLOGY – CHICAGO, IL, USA

SEPT 2016 – FEB 2018

- People and event management.
 - Promotion and marketing of athletic events
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ACADEMIC PROJECTS

- Design and developed an e-commerce website using **JAVA servlet, HTML, CSS, MYSQL, MongoDB**
 - Design Android application using Android Studio : news, a notebook and a stock watch application.
 - Compute the theoretical memory bandwidth of your memory , Gflops, Iflops and Throughput of CPU , GPU.
 - Ecosystem such as **HDFS**, Name Node, Data Node and **Map Reduce** programming paradigms.
 - Estimating the Cost of Computing in the Private and Public Cloud (**AWS**)
 - Estimate the cost of different configurations for 3 different set of requirements on **d2.8xLarge, r3.large** and **p3.16xlarge**.
 - Implementing Tera-Sort using **Shared Memory, Hadoop, Spark** on 128GB and 1 TB dataset on **i3.large** and **i3.4xlarge** instances
 - Compare the performance of the four versions of TeraSort (**Shared-Memory, Hadoop, Spark, and MPI**) on 1 node scale and 8 node scale with both the 128GB and 1TB dataset.
 - Design and developed an e-commerce website using **JAVA servlet, HTML, CSS, MYSQL, MongoDB**
 - Implemented Napster/Gnutella Style **Peer-to-Peer File Sharing** between distributed Systems using sockets with automatic update of files to central server and a central server or a cluster of central servers directs the traffic between individual registered peers its includes **Multi-threading** and TCP/IP sockets
 - Design **Android** application using Android Studio : news application, a notebook application and a stock watch application.
 - Worked with parallel and distributed programming frameworks, Pthreads, CUDA, MPI.
 - Experience with **Python** development and Online Social Network Analysis with Twitter API. Collected data (tweets) on some keyword topic, did some semantic analysis and ML text clustering and classification
 - Building semantic analysis of the tweets collected from social media, Recommending friends by establishing links between people using social media using **Python** i.e. link prediction, text classification and clustering.
 - Built and designed storage manager, buffer manager and record manager from scratch using **C/C++** programming language.
 - Build a data analytics model and Machine Learning model using Microsoft Azure Power BI and Azure ML respectively.
 - Used AWS Lamda and S3 for hosting a sever-less website.
 - Used advance level programming in **C/C++** including thread synchronization multi-threading , multi-processing, **Object Oriented** Programming and **TCP/IP** socket programming.
 - Worked with Amazon Web Services (**AWS**) using **EC2** for computing and **S3** as storage mechanism.
 - Knowledge of Software Development Life Cycle (**SDLC**) phases like Requirement Analysis, Implementation and estimating the time-lines for the project.
 - Working knowledge of **SQL** and databases systems **MySQL , MongoDB**.
 - Worked with source control management systems (e.g. **GIT**), relational databases, distributed computing (**pthreads, Openmp, MPI**), and Linux OS.
 - Learned about **Machine Learning, Data Mining, Algorithms, Data Structures, and Artificial Intelligence**.
 - Worked with **Python and Bash scripting** for **Cloud Automation**.
 - Good understanding of **NoSQL** databases and hands on work experience in writing applications on NoSQL databases like **MongoDB**. Experience with AWS SDE technologies **Redshift, RDS, S3**.
 - Used Full-Stack web development for designing a website.
 - Used data visualization tools like Tableau and Python Matplotlib.
 - Used project management tool like MS Projects.
 - Good understanding of data structures and algorithms.
 - Used strong communication, collaboration & team building skills with proficiency in grasping new technical concepts quickly.
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AWARDS AND ACHIEVEMENTS

- Got recognized for my innovative and creative approach towards my internship at Motorola Solutions, Inc.
 - Got **Best Technical Skills** certification during a research workshop held at CS department of ODU, VA, USA.
 - Awarded **Valedictorian** of Information Science and Engineering Department Class of 2016 Acharya Intitute Tech.
 - Received 2017-18 **Rave Award** for being an extraordinary student employee, going above and beyond assigned tasks, and helping to create an enjoyable and productive workplace.
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HACKATHON

- <https://devpost.com/software/safetrack>
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