Jees Augustine

. ALGORITHM . DATABASE . DATA SCIENCE . DEEP LEARNING . GRAPHS . MACHINE LEARNING . 815 Bering Drive, Apt # 1414 - C, Arlington

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EDUCATION

Ph.D. Computer Science and Engineering

University of Texas at Arlington, USA

(CGPA: 4.0/4.0)

Master in Engineering . Computer Science and Engineering

Birla Institute of Technology & Science, Pilani, India

(CGPA: 8.19/10.0)

Arlington, Texas 2014 -Present

Pilani, India Fall 2011- Fall 2013

PROFESSIONAL EXPERIENCE

Cisco Systems - India

Bangalore, India SOFTWARE ENGIEER II Aug-2013 - Aug-2014

• Implementation and refinement of features in Multi-Protocol Label Switching (MPLS) and Fast Rerouting (FRR) on

mobile backhaul networks.

EMC Corporation Bangalore, India PROIECT INTERN Jan-2013 – Jun-2013

• Design and development of an application, choreographing the Backup Server Install/Upgrades in Python.

• Devising a **pseudorandom number generator** for verifying the client-side deduplication.

Indian Institute of Technology - Chennai

PROJECT INTERN

Chennai, India

May-2012 - Jul-2012

• Online Minimum Makespan Scheduling with improved Buffer Size.

Vikram Sarabhai Space Center (VSSC)

PROJECT INTERN

Trivandrum, Kerala

Nov-2009 - Jan-2009

• Design of information warehousing system for launch vehicle simulations using JSP and MySQL.

SKILLS

Data Analysis Pandas, NumPy, SciPy

Machine Learning SciKit-Learn

Deep Learning Keras, TensorFlow

Visualization Matplotlib, Tableau(beginner)

Languages Python, C, Java, HTML, JSP

Databases MS Access, MS SQL Server, MySQL, Oracle

Web Technologies HTML, XML, CSS, JavaScript

Query Languages SQL, PLSQL

PUBLICATIONS

- Abolfazl Asudeh, Azade Nazi, Jees Augustine, Saravanan Thirumuruganathan, Nan Zhang, Gautam Das, Divesh Srivastava. "Leveraging Similarity Joins for Signal Reconstruction". Accepted VLDB: Very Large Databases 2018.
- [Poster] Abolfazl Asudeh, Azade Nazi, Saravanan Thirumuruganathan, Jees Augustine, Sona Hasani, Nan Zhang, Gautam Das, Divesh Srivastava. "Finding the Closest Point to a Prior in Large-Scale Sparse Binary Under-Determined Systems", In iPerform 2017.
- [Poster] Azade Nazi, Jees Augustine, Saravanan Thirumuruganathan, Gautam Das, Divesh Srivastava, Nan Zhang. "Finding Top-k Source-Destination Flows in a Network". In iPerform 2016.

WORKING PROJECTS

- AEL: Deep Learning Models to Predict User's Spatial Locations Using GPS Data
- Computing Top-K Nearest Neighbor Graph through Crowdsourcing

RELVANT COURSES

Advanced Computational Models and Algorithms . Special Topics in Advanced Information Security . Machine Learning . Advanced Algorithms and Complexity. Advanced Computer Networks. Advanced Operating Systems. Algorithm Analysis and Design. Security in Computing . Data Analysis and Modeling .

CERTI	FIED COURSE	ES ONLINE - MOOC	
	CourseraCourseraCoursera	Introduction to Data Science in Python Programming for Everybody, Getting Started with Python Python Data Structures Using Python to Access the Web Data Using Databases with Python	-Link- -Link- -Link- -Link- -Link-
ONGO:	CourseraCourseraCourseraUdacity	Deepleaming.Ai Machine Learning Neural Networks for Machine Learning Deep Learning from Google Machine Learning for Data Science	
PROJI	ECTS		
1.	Technology Dataset Methodology	Python 2.7, NumPy, SciPy AT&T Image Dataset (40 different individuals) Principal Component Analysis for dimentality reduction, SVM 88% in Testing	UTA, Sep 2014 – Dec 2014 for classification
2.	Technology Dataset Methodology	Python2.7, NumPy, SciPy AT&T Image Dataset (40 different individuals) Principal Component Analysis for dimentality reduction, LDA 94% in Testing	UTA, Sep 2014 – Dec 2014 A for classification
3.	Technology	y of Backup Server Install/Upgrade Python2.7, Linux, EMC Avamar, MySQL Proprietary, EMC corporation Choreograph the Software Upgrade, Generate Pseudo Numb for Internal Use at EM Corporation	EMC-Corporation, Bangalore: Jan 2013 – Jun 2013 ber from Linux to test, Validation and Sanity Check
4.	Technology Dataset	on of Virtual Machine over a Network Java, Linux, MySQL, KVM Synthetic Dataset Generated Premature Negotiation, Push-Pull Negotiation with source and de Experiential	BITS, Pilani, Aug 2012 – Dec 2012 lestination
5.	Technology	framework on the cloud enabling Semantic Dynamic C Java, Linux, MySQL Synthetic Dataset Generated Sematic module identification with Natural Language, compose b Experiential	
6.	Technology	Astem Simulator Java, Linux Synthetic Dataset Generated Deadlock Detection, Deadlock Prevention, Process Synchronic Experiential	BITS, Pilani , Sep 2011 – Dec 2011 nization, IPC
7.	Technology Dataset Methodology	formation Repository System for Launch Vehicle JSP, MySQL, Apache Server Proprietary flight data ISRO Deadlock Detection, Deadlock Prevention, Process Synchronic for Internal Use at VSSC, ISRO	VSSC, ISRO, India Dec 2010 - Jan 2011 ization, IPC
RESEARCH EXPERIENCE			
• Graduate Research Assistant DBXLab University of Texas at Arlington Spring 2017, Spring 2018			
TEACHING and MENTORSHIP			

Graduate Teaching Assistant, Secure Programming, UTA.

Fall 2017

Fall 2014 – Current

• Graduate Teaching Assistant, Advanced Topics in Database Systems, UTA.

• **STEM Scholarship** for Graduate Teaching Assistant at long semesters at UTA.

Summer 2016

• Graduate Teaching Assistant, Computer Networks, UTA.

Fall 2016, Spring 2016

• Graduate Teaching Assistant, Computer Networks I: Protocols and Architecture, UTA.

Fall 2014 - spring 2015

• Teaching Assistant, Data Structure and Algorithms, Birla Institute of Technology and Science, India.

Fall 2012

• Teaching Assistant, Computer Networks, Birla Institute of Technology and Science, India.

Fall 2011 - Spring 2012

ACADEMIC ACHIEVEMENTS _

- 1 among the 18 qualified for BITSAT- Higher Degree Program (Computer Science), an All India entrance examination for admission into Master Degree by Birla Institute of Technology and Science, Pilani (BITS-Pilani), India.
- Secured 98.88 Percentile in Graduate Aptitude Test in Engineering (GATE) in 2011 (Written by .13M Students).
- Project Forum Member (Masters) Computer Science Association BITS Pilani.
- Secured 1st position for presenting the paper "Self-Defending Networks-A Smarter Way to Defend" at XTRIUM 09 v.20, Technical Festival by Association of Electronics and Communication Engineering, MACE, Kothamangalam.
- Secured 2nd position for presenting the paper "Self-Defending Networks with Automatic Intrusion Detection" at Qbit'09 v.20, Technical Festival organized by Department of Computer Science and Engineering, MACE, Kothamangalam.