SHAURYA SHEKHAR

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EDUCATION

University of Wisconsin - Madison | M.S. (Computer Science)

[Sep'19 - Present]

VIT UNIVERSITY, VELLORE, INDIA | BTECH. (COMPUTER SCIENCE) CGPA: 8.72/10 (TOP 10%)

[JUL '14 - Jul'18]

- Ranked 1st among 750 students in Academic Year 2014 2015.
- Scored 10/10 GPA in Computer Programming and Problem Solving, Data Structures & Algorithms, Database Systems, Data Warehousing & Data Mining, Computer Networks, Soft Computing.

WORK EXPERIENCE & INTERNSHIP

MORGAN STANLEY (FOR WISSEN TECHNOLOGY) | TECHNOLOGY CONSULTANT

[Jun'18 - Jul'19]

- Worked on Java, Spring and Angular to migrate a PB Custody Tech project and was awarded the Best Team Award
 internationally in the Institutional Securities Tech Division.
- Tasked with designing software architecture, performing database optimization and building API services from scratch using the **Model-View-Controller** design pattern for the project. Also worked on fixing complex UI bugs.

BHARTI AIRTEL LIMITED | SUMMER ENGINEERING INTERN

[Jun'17 - Jul'17]

- Modified the MQTT protocol header to optimize for cloud computing and implemented an interval based transmission algorithm which allowed for support for >25,000 devices at any point of time
- Developed a data-warehousing framework (in Python) for faster OLAP reducing the disk-space requirement for transactional database by 25% and used Raspberry Pi & AWS to build a prototype.

ACADEMIC PROJECTS

Industrial Training Project - Interview Web Tool - JustHire

[Jun'18 - Jul'18]

• Developed tool to automate the process of taking interviews with the difficulty level of questions being dynamically modulated according to the performance of the candidate using **Java** & **Angular**.

Research Project - Data Breach Analysis And Solution for Aadhaar

[Dec'17 - May'18]

- Performed Principal Component Analysis (PCA) on 2004 2017 dataset to identify critical factors (such as year, type of organization, type of industry) by making use of dimensionality reduction and feature elimination techniques.
- Used **Lowess regression** to predict the number of data breaches in the future on the basis of the dataset and 66% accuracy was achieved by balancing overfitting and underfitting.

Software Engineering Coursework Project - OCR for Devanagari Script

[Jan'17 – May'17]

- Developed an Optical Character Recognition Software for Devanagari script to provide text in an editable format using Python and Google Tensorflow Neural Network using supervised learning approach.
- Achieved 91% accuracy and 83% validation accuracy and reduced cross entropy to 0.44.

Algorithm Design - Pseudo Random Number & Random Variate Generation

[Jan'16 - May'16]

- Implemented pseudo random generator using different algorithmic techniques and performed statistical analysis to check the randomness of generated numbers.
- Used linear congruential method, combined linear congruential method and Poisson distribution method for random number generation.

RESEARCH PAPERS

- **Published** 'Privacy and Security in Aadhaar' International Journal of Engineering Development And Research, Volume 6, Issue 4, October 2018 Link: https://www.ijedr.org/viewfull.php?&pid=IJEDR1804017
- Published 'Efficient Object Recognition Using Convolution Neural Networks' International Journal of Computer Application, Volume 161, Issue 2, March 2017 Link: http://www.ijcaonline.org/archives/volume161/number2/thakral-2017-ijca-913123.pdf
- **Published** 'Internet of Things and Creation of Fifth V of Big Data' International Journal of Science and Research, Volume 6, Issue1, January 2017 Link: https://www.ijsr.net/archive/v6i1/ART20164394.pdf

ACADEMIC ACHIEVEMENTS

- Awarded Merit Scholarship on University Day 2015 for being Rank 1 in Academic Year 2014-15 in VIT
- Instructed session on Programming Skills as part of a Robotics Workshop organized by IEEE in VIT (Sep-14)
- **Secured** 99.96, 98.28, 92.77 percentile in Language Conventions, Qualitative Reasoning and Quantitative Reasoning respectively in the CBSE administered national-level Problem Solving Assessment Test in 2012-13
- Peer Mentor for the Computer Programming & Problem Solving class in VIT University.

OTHER INTERESTS

SOCIAL EXPERIENCE Teacher (Make A Difference), Member (University Debate Society & Google Developers Group)