

EDUCATION

- UNIVERSITY OF WISCONSIN – MADISON | M.S. COMPUTER SCIENCE** CGPA: 4.0 / 4.0 Sep'19 – Dec' 20
- **Coursework:** Machine Learning, Operating System, Artificial Intelligence, Distributed Systems
- VIT UNIVERSITY, VELLORE, INDIA | BTech. COMPUTER SCIENCE** CGPA: 8.72/10 (**Top 10%**) Jul '14 – May'18

WORK EXPERIENCE & INTERNSHIP

- AMAZON WEB SERVICES | SOFTWARE DEVELOPMENT ENGINEER INTERN** May'20 – Aug'20
- Worked in the Alexa for Business unit to develop an application which allowed for virtual testing for Alexa Skill permissions.
 - Was responsible for requirement gathering, project planning and application design and used **Java** and **Spring** for the backend and **React** for the frontend.
 - Availability of option to test permission virtually reduced the time needed to test Alexa Skill permission by **65%**.
- MORGAN STANLEY (FOR WISSEN TECHNOLOGY) | TECHNOLOGY CONSULTANT** Jun'18 – Jun'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.
 - Designed software architecture, performed database optimization and built API services from scratch using the **Model-View-Controller** design pattern for the project. Also worked on fixing complex UI bugs.
 - Performed critical backend debugging in time-constrained manner and reduced deployment time of fixes by around 66%.
 - Automated deployment using Jenkins and slashed build & deployment time by 75%. Responsible for uptime of 99% post going live with clients.
- 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.

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.

SKILLS, LEADERSHIP & OTHER INTERESTS

SOFTWARE SKILLS	C++, Java, SQL, JavaScript, Kotlin, HTML, Data Structures & Algorithms, Python, CSS
FRAMEWORKS	Spring Boot, Spring MVC, Angular, React
TOOLS	Git, Jenkins, JIRA, AWS, Swagger, Tomcat
LEADERSHIP	<ul style="list-style-type: none">▪ Instructed session on Programming Skills as part of a Robotics Workshop organized by IEEE in VIT (Sep-14)▪ Peer Mentor for the Computer Programming & Problem Solving class in VIT University.
OTHER INTERESTS	Teacher (Make A Difference), Member (University Debate Society & Google Developers Group)