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| icons8-phone-26[icons8-email-open-32](mailto:winsgoyal.iitj@gmail.com)[icons8-linkedin-24](https://www.linkedin.com/in/w1nsg0yal/)[icons8-github-24](https://www.github.com/winsgoyal/)**WINS GOYAL**  +1 (352) 871-3689 | winsgoyal.iitj@gmail.com | [w1nsg0yal](https://www.linkedin.com/in/w1nsg0yal/) | [winsgoyal](https://www.github.com/winsgoyal/) | | | | |
| **EDUCATION** | | | | |
| **University of Florida,** Gainesville, Florida | | *Aug 2019–May 2021* | | |
| *Master of Science - Computer Science, Herbert Wertheim College of Engineering* | | *GPA: 3.89/4.0* | | |
| * *Courses:* Distributed Systems, Algorithms, Database Systems & Implementation, Network Data Streaming,   System Design, Machine Learning, Projects in Data Science, Programming Lang. Principles | | | | |
| **Indian Institute of Technology (IIT) Jodhpur,** Rajasthan, India | | *Jul 2011–May 2015* | | |
| *Bachelor of Science, Computer Science and Engineering* | |  | | |
| * *Courses:* Complex Networks, AI & Pattern Recognition, Image Processing, Operating Systems | | | | |
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| **PROFESSIONAL EXPERIENCE** | | | | |
| ***Jr. Research Engineer****,* **IoTSPACE Pvt. Ltd*.,*** Maharashtra, India | | *Jan 2018–Apr 2019* | | |
| * Enhanced data security by *~80%*,by encoding the *MQTT* protocol over a Mesh topology of IoT products. * Solved *brown-out memory flush* and failure tolerance issues to prevent data loss on Raspberry Pi 3 & Arduino. | | | | |
| ***Software Engineer****,* **Voylla Fashions Pvt. Ltd.,** Rajasthan, India | | *May 2015–Dec 2016* | | |
| * Lead a team of 3 in developing an interactive web-app - ‘***Virtual Try-On***’ - to virtually try jewelry online. * Devised a***Data* C*entralization process***by ETL mechanisms to act as feed to the Data Visualization tools. * Automated and standardized *~70%* of the image-editing task of accurately fitting Jewelry images on Model images increasing the output of the Image-processing team *from 100 images/day to 1000 images/day*. | | | | |
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| **RESEARCH EXPERIENCE** | | | | |
| **EdgeVPN *(Open Source)*,** *Adv. Computing & Info. Systems (ACIS) Lab* | | *May 2020–Aug 2020* | | |
| * Integrated latest stable version packages of Tincan and WebRTC to EdgeVPN (*a P2P-based decentralized VPN software in C++ & Python*). Tested & modified existing class methods as per the upgraded packages. * Re-designed the WebUI and Webservice for the visual simulation of Software testing (*Flask, React & Node*). | | | | |
| **Graph-to-text Representation,** *Data Science Research (DSR) Lab* | | *May 2020–Aug 2020* | | |
| * Implemented Variational Auto-encoder with Attention based Seq2Seq models to measure the accuracy of Sentence-Triples-Sentence conversion using *SpaCy, NLTK, OpenIE & pySpark* on large Wiki Dumps. | | | | |
| **Hypotheses Generation,** *Data Science Research (DSR) Lab* | | *Jan 2020–Apr 2020* | | |
| * Designed evaluation metrics for Query Inferencing over DARPA provided Knowledge Base (KB) generating more coherent and generalized hypotheses using *pre-trained Embeddings* & *TF-IDF scores*. | | | | |
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| **PROJECTS** | | | | |
| **Unix-based Network File System,** *Principles of Computer System Design* | | *Sep 2020–Nov 2020* | | |
| * Creating RPC-based NFS to run on multi client-server system with logging, virtualization, data redundancy. | | | | |
| **Music Streaming App,** *Data Engineering Nanodegree, Udacity* | | *Jul 2020–Aug 2020* | | |
| * Modeled a data warehouse to optimize data analytics. Configured data pipelines & star-schema architecture. | | | | |
| [icons8-external-link-24](https://github.com/foundationsmachinelearning-fa19/project-01-neo_digits)**[Ensemble Learning model for Optical Character Recognition](https://github.com/foundationsmachinelearning-fa19/project-01-neo_digits)** | | *Nov 2019–Dec 2019* | | |
| * Enhanced the preprocessed input by extracting character contours using ***shape-context descriptor algorithm***. * Achieved ~96% recognition accuracy implementing KNN model fed with PCA-applied character images. | | | | |
| [icons8-external-link-24](https://github.com/Rahul-Wahi/Tapestry-Peer-to-Peer-Overlay-Network)**[Tapestry Overlay & Twitter Clone Simulation,](https://github.com/Rahul-Wahi/Tapestry-Peer-to-Peer-Overlay-Network)** *Distributed Systems* | | *Sep 2019–Dec 2019* | | |
| * Successfully implemented a paper on ‘***Resilient Tapestry Overlay***’ using backpointers incorporated DHTs. * Analyzed ‘***Gossip Algorithm***’ performance on different large network topologies. Established web-sockets with Genserver architecture for Twitter Engine simulator using ETS Storage and Phoenix framework. | | | | |
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| **SKILLS** | | | | |
| * **Languages / Web:***Python, C++, Java, Scala, Ruby, R, C#, JavaScript, React.js, Node.js, HTML/CSS* * **Frameworks:** *Django, Docker, Kubernetes, Junit, Flask, Gtest, DialogFlow, Unity, Jupyter, ETL* | * **Database:***MongoDB, PostgreSQL, Kafka, Spark, MySQL, Cassandra, Airflow, Redshift, S3, GCP* * **ML / NLP:** *SpaCy, OpenIE, Numpy, Scikit, Pandas, NLTK, TensorFlow, PyTorch, OpenCV2, Matplot* | | | |
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| **LEADERSHIP & EXTRA-CURRICULAR** | | | | |
| * ***Mentor*** *(SwampHacks)*,annualhackathon at University of Florida * ***General Secretary***, *Design & Arts Society* at IIT Jodhpur, elected by 1000 students * ***Chief Organizer***, ***1st*** *Robotics Summer Camp* at IIT Jodhpur funding 8 interdisciplinary teams * ***1st*** Runner-up team in *Micro-Air Vehicle (MICAV)* national competition by DRDO & NAL * Deployed a low-cost *PV-panel Cleaning Robot*, Solar Park, Phalodi *(Larsen & Turbo)* | | | | *2020*  *2013-2014*  *2013*  *2012-2013*  *2012* |
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| **ACHIEVEMENTS** | | | | |
| *Academic Achievement Award* waiving $4500 fee by UF for best academic performance  *#UdacityKPITScholar:* Achieved Scholarship for ‘*Self Driving Car Engineer*’ nanodegree | | | *Aug2019–Dec 2020*  *May 2017–Dec 2018* | |