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| icons8-phone-26[icons8-email-open-32](mailto:winsgoyal@ufl.edu)[icons8-github-24](https://www.github.com/winsgoyal/)[icons8-linkedin-24](https://www.linkedin.com/in/w1nsg0yal/)**WINS GOYAL**  +1 (352) 871-3689 | winsgoyal@ufl.edu | [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, Analysis of Algorithms, Database Systems Implementation, System Design,   Machine Learning, Projects in Data Science, Network Data Streaming, Programming Languages | | | |
| **Indian Institute of Technology (IIT) Jodhpur,** Rajasthan, India | *Jul 2011–May 2015* | | |
| *Bachelor of Science, Computer Science and Engineering* |  | | |
| * *Relevant Courses:* Complex Networks, AI & Pattern Recognition, Image Processing, Operating Systems | | | |
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| **TECHNICAL SKILLS** | | | |
| * ***Proficient:***Python, C++, Java, Elixir, Ruby, R;***Web Technologies:*** JavaScript, React.js, Node.js, HTML/CSS * ***Database / Streaming:*** PostgreSQL, MongoDB, Airflow, Cassandra, Spark, AWS Redshift, AWS S3 * ***Framework / Platforms:***Django, Flask, Dockers, Kubernetes, Junit, Gtest, RTOS, HiPerGator2, DialogFlow * ***ML/NLP:***SpaCy*,* OpenIE,TensorFlow, PyTorch, OpenCV2, Numpy, Scikit, Pandas, MatplotLib, MATLAB | | | |
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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 image-editing task of accurately fitting Jewelry images on Model images increasing the output of Image-processing team *from 100 images/day to 1000 images/day*. | | | |
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| **GRADUATE RESEARCH WORK** | | | |
| **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 along 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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| **PERSONAL / ACADEMIC 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 data redundancy to achieve consistency. | | | |
| **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-24T](https://github.com/Rahul-Wahi/Tapestry-Peer-to-Peer-Overlay-Network)apestry Overlay & Twitter Clone Simulation,** *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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| **ACHIEVEMENTS / AWARDS** | | | |
| *#UdacityKPITScholar:* Achieved Scholarship for ‘*Self Driving Car Engineer*’ nanodegree  *Merit-cum-Means Scholar:* Achieved tuition fee waiver for best Academic performance | | | *Jan 2017–Dec 2018*  *Jul 2012–Apr 2013* |
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| **EXTRA-CURRICULAR** | | | |
| * *Coursera Specializations:*Natural Language Processing, Advanced Machine Learning *(Jul-Aug 2020)* * *Udacity*: Self-driving Car Engineer (*Jan 2017-Dec 2018*) nanodegree on perception, mapping & localization * Pioneered *First Robotics Summer Camp* at IIT Jodhpur in *Summer 2013* funding 8 interdisciplinary teams * Lead *Design & Arts Society* at IIT Jodhpur as *General Secretary*, elected as a student representative *(2013-2014)* | | | |