KANIKA SHARMA

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EDUCATION

University Of Florida • Gainesville, Florida   *Aug 2019 – Dec 2020*
Master of Science, Computer Science

Relevant Courses: Blockchain; Computer Networks; Analysis of Algorithms; Advanced Data Structures; Pattern Recognition; Database

PES Institute of Technology - South Campus • Bangalore, India   *Aug 2013 – July 2017*
Bachelor of Engineering with Honours in Computer Science & Engineering

SKILLS

Languages – Java, C++, Python   **Tools/Libraries** – Java AWS SDK, Endur, OpenCV, Keras, Pandas
Databases – Oracle, MySQL,Teradata   **Web** – Magento (MVC),Django, NVD3, D3, Fusion charts, PHP

WORK EXPERIENCE

Goldman Sachs   *July 2020 – Current*
Software Engineering Intern, Critical Infrastructure - Authentication Team   *Jersey City, NJ*
- Developing a service to transfer logs from DUO (SaaS product hosted on AWS) to Security Response team for monitoring security events. The pipeline uses AWS Lambda, S3 bucket, CloudWatch and Key Management Service

Sapient Consulting Private Limited - Publicis Sapient   *Nov 2017 – June 2019*
Software Engineer   *Bangalore, India*
- Designed and developed APIs (Java) and stored procedures (Oracle) to handle specific client trading requirements on Endur, an ETRM solution
- Designed and implemented regression test lifecycle plan and test cases for a database migration project from SQL to Teradata improving latency of real time trading reports by 45%
- Analyzed failures and fixed them to perform trading platform upgrade for a client
- Automated trade deal lifecycle testcases using QTP which reduced $\sim$ 4 hrs of manual effort each day

Synnov   *Jan 2016 – Feb 2016*
Software Engineering Intern   *Bangalore, India*
- Optimized SQL queries through refactoring for improving latencies
- Performed testing and bug fixing of PHP scripts, in Magento framework (MVC)

PROJECTS

Speech Recognition   *Spring 2020*
- Developed speech recognition system and analysed multiple approaches used for spotting keyword from audio files
- MFCC, Spectrogram and sampling features were extracted to train Naive Bayes, SVM, and CNN classifiers

US Accident Analytics   *Spring 2020*
- Developed full stack web application using django to study the trends of US Accidents
- Used nvd3, fusion charts (libraries) for visual analytics and Javascript, HTML, CSS, SQL, Python to develop a dynamic frontend and backend. Modeled and created Oracle database through SQL

File sharing application   *Fall 2019*
- Implemented a peer to peer network architecture for a file sharing application
- The file owner sends an initial number of file chunks to the peers, who communicate amongst each other to download the remaining chunks
- Developed a client server application that allowed clients to upload files, fetch files and query file info from server

Prediction of Nutrient Deficiency in the Human Body   *Spring 2017*
- Developed a computer vision system using OpenCV to predict nutrient deficiency by extracting nutritional information from the image of food that an individual consumes
- Implemented SIFT algorithm with KNN for image matching. Extended it to a website for a better user experience

Yelp Restaurant Photo Classification   *Spring 2016*
- Predicted attribute labels for restaurants using user-submitted photos
- Used pretrained VGG-16, Inception-V3 neural networks and VLAD descriptor to compute business level features. Created linear OnevsRest SVM classification models