

# 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, Terraform, OpenCV, Keras, Pandas

**Databases** – Oracle, MySQL, Teradata

**Web** – Magento (MVC), Django, NVD3, D3, Fusion charts, PHP

## WORK EXPERIENCE

### Goldman Sachs

July 2020 – Aug 2020

*Software Engineering Intern, Critical Infrastructure - Authentication Engineering Team*

*Jersey City, NJ*

- Designed and developed a service to transfer logs from DUO (SaS product hosted on AWS) to Security Response team for monitoring security events. The pipeline uses AWS Lambda, S3 bucket, CloudWatch and KMS
- Used Terraform for implementing IaC to ensure error free creation of resources

### 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 ~ 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