KANIKA SHARMA

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EDUCATION

University Of Florida • Gainesville, Florida *Aug 2019 – Dec 2020*
Master of Science, Computer Science
Relevant Courses: Distributed OS, Distributed Multimedia Systems, 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, F# **Tools/Libraries** – Akka, AWS, Terraform, OpenCV, Keras, Pandas
Databases – Oracle, MySQL,Teradata **Web** – Magento (MVC),Django, NVD3, D3, Fusion charts, PHP

WORK EXPERIENCE

Microsoft *Feb 2021 - Present*
Software Engineer (Core Services Engineering team) *Seattle, US*

Goldman Sachs *July 2020 – Aug 2020*
Software Engineering Intern, Authentication Engineering Team *Jersey City, NJ*
- Designed and developed an application to transfer logs from DUO (SaS product hosted on AWS) to Security Response team for monitoring security events using Java and AWS.
- Used Terraform for implementing IaC to ensure error-free creation of AWS Lambda, S3, CloudWatch and KMS

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

PROJECTS

Distributed Operating System *Fall 2020*
- Implemented solution of Lucas Square Pyramids via parallel computing with efficiency of 6.5 core over single core using F# and Akka framework.
- Used F# and Asynchronous Actor Model to implement gossip simulator. The simulator helps to determine the convergence of gossip type algorithms in social networks.
- Designed and implemented twitter clone as microservices architecture using F# and Akka.

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 Humans (Computer Vision) *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