

GAURAV AHUJA

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EDUCATION

Stony Brook University, New York

Aug 2017 – Dec 2018

Master of Science, Computer Science

GPA 3.97/4.0

Courses: Databases, Asynchronous Systems, Algorithms, Machine Learning, Computer Vision, Big Data, NLP, AI

Indian Institute of Technology (IIT) Delhi, India

July 2011 – May 2015

Bachelor of Technology, Computer Science and Engineering. Ranked 95/468,280 in the qualifying exam (JEE 2011)

TECHNICAL SKILLS

C, C++, Java, Python, Scala, MATLAB, Spark, Android, OpenCV, Tensorflow, SQL

WORK EXPERIENCE

Rubrik Inc

Feb 2019 – Present

Software Engineer

- Working on feature enhancements and customer cases related to SQL Server backup, recovery and rubrik rest api
- Designed and developed full and incremental backup and contributed to restore and rest api for protecting HDFS
- Implemented HTTPS based protocol for inter node communication which replaced the existing SSH protocol

Samsung R&D Institute India, Noida

July 2015 – Aug 2017

Software Engineer

- *Biometrics*: Developed an authentication system based on a novel biometric. Implemented the functionality to collect raw data and extract biometric template. Trained SVM and ensemble of decision trees on handcrafted features for authentication. Collected data of 520 users and achieved 4.34% FRR at 0.0017% FAR
- *BioHashing*: Developed a two factor fingerprint authentication system using biohashing
- *Private Mode*: Worked on development of framework layer of Private Mode feature in Samsung Android smartphones
- *Launcher*: Developed an Android Launcher which included the functionality to hide applications in personal mode
- *Awards*: Two time winner in center wide *MOSAIC Ideation Contest*

INTERNSHIPS

Rubrik Inc

May 2018 - Aug 2018

Member of Technical Staff Intern, Datos IO Team

- Created docker image for compiling code and generating Recover-x builds on laptop and cloud
- Developed Azure backend in Storage Federation Layer using Azure storage SDK to store and retrieve backups
- Implemented fine grained progress tracking of each step of backup and restore tasks

Samsung R&D Institute India, Noida

May 2014 - July 2014

Intern

- Trained HAAR feature based cascaded classifiers for detecting eyes and mouth in face images
- Used a regression model to obtain coarse estimates of facial landmarks. Trained random forests and a regression model to iteratively refine the estimates using local information and global shape

ACADEMIC PROJECTS

HDFS using DistAlgo (High-level language for programming distributed systems)

Fall 2018

- Designed and developed namenode, datanode and client modules for Hadoop Distributed File System to support create, open, read, write and delete operations. The filesystem detected and handled datanode and client failures

Image Captioning on Android smartphone

Fall 2018

- Ported Show and Tell image captioning model on Android and implemented inference to do real time captioning

Neural Information Retrieval System

Spring 2018

- Selected paragraphs relevant to a question from a collection of wikipedia articles based on keyword matching
- Trained match-LSTM with answer pointer model to answer the question from relevant paragraphs

Crop Yield Prediction Using Big Data

Fall 2017

- Computed normalized histograms of weather characteristics at biweekly and monthly time steps using Spark
- Used random forest, linear and support vector regression to predict per year yield of Apple, Barley and Maize

Facial Expression Recognition System

Fall 2014

- Developed a real time facial expression recognition system robust to illumination variations
- Used geometric and texture (LBP, LDP) features, SVM, Naïve Bayes and kNN classifiers for expression classification