Naman Bhalla

https://namanbhalla.in
namanbhalla1998@gmail.com | +91-9996203771

EDUCATION

BML MUNJAL UNIVERSITY

B.Tech in Computer Science and Engineering
Expected May 2020 | Gurugram, IN
GPA: 9.52/10

LINKS

Github:// Naman-Bhalla
LinkedIn:// namanbhalla
Twitter:// @Naman_Bhalla
Quora:// Naman-Bhalla

COURSEWORK

UNDERGRADUATE

Advanced Design and Analysis of Algorithms
Distributed Systems
Information Retrieval
Cloud Computing
Internet of Things
Operating Systems
Database Systems
Computer Networks
Computer Organization and Architecture

INDEPENDENT

Deep Learning Specialization (Coursera)
CS 224N Natural Language Processing (Stanford)
CS 231N Convolutional Neural Networks (Stanford)
Design and Analysis of Algorithms (MIT OCW)

SKILLS

PROGRAMMING

Python • Java • C
Familiar:
C++ • Go • Assembly • MySQL
Android

INTERESTS

I love solving problems and spend a good amount of time solving problems on Competitive Programming websites.

EXPERIENCE

SHIPSY | Software Engineering and Data Science Intern

Feb 2018 – July 2018 | Gurugram, IN

- Built an end to end Machine Learning pipeline to recognize text from handwritten postal labels by using Tensorflow and implementing the state of art research papers.
- Reduced frame processing time by 3 times on Shipsy's Rider Android App by implementing custom CameraView and using Facebook's Fresco for reducing memory consumption.
- Used Firebase ML Kit to implement Barcode Scanning. Doubled the rate of scan by making efficient use of multiple threads.
- Created the proof of concept for Shipsy's Control Tower by using Google Dialogflow and Flask to answer clients' query by voice.
- Stack Used: Firebase, Android, OpenCV, Java, Python, Flask

PROJECTS

MOVEMENT RETRIEVAL FROM A SET OF VIDEOS

Sep 2018 – November 2018 | https://github.com/Naman-Bhalla/ir_server

- Read latest papers published on Moment Retrieval in established proceeding such as SIGIR.
- Implemented and compared various models proposed by deploying them using Flask on an AWS Instance. Used Tensorflow to build the model.
- Maximum accuracy achieved was 74% for top 5 results from over 10000 videos.

BUFFER POOL MANAGER PROTOTYPE OF A DATABASE

March 2018 – April 2018 |
https://github.com/Naman-Bhalla/dbms-buffer-pool-manager-python

- Understood the internal working of a Buffer Pool Manager in a Database.
- Used LRU replacement policy for the pages.
- The prototype allowed for creating, fetching, deleting, pinning/ un-pinning pages.

FILE SYSTEM PROTOTYPE OF AN OPERATING SYSTEM

March 2018 – April 2018 |
https://github.com/Naman-Bhalla/os-file-system-python

- Implemented a prototype for a tree structured file system.
- The prototype allowed for traversing the directory, changing current directory, getting file details and performing common file operations like deleting, checking file size etc.
- Learnt the details of how such a system is actually implemented in real world Operating Systems.

EMPTY PARKING SPACE DETECTOR

October 2016 – December 2016

- Built a hardware project to detect an empty parking space.
- Used Ultrasonic sensors to detect presence of an object and communicated to a central server using Arduino, which then communicated with a display located outside the parking arena to mark the area as already occupied.

AWARDS

2018 1st/40 Alibaba Tianchi Hackathon