

Dhyey Pandya

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EDUCATION

University of Illinois, Urbana-Champaign

Expected Dec 2023

Masters of Computer Science (MCS)

Courses Taken: Text Information Systems, Data Mining Principles, Web Development

Manipal Institute of Technology, Manipal, India

July 2016 - May 2020

B. Tech in Computer and Communication Engineering; GPA 8.75/10

Relevant Coursework: Object Oriented Programming, Parallel Computing, Data Structures, Operating Systems, Design and Analysis of Algorithms, Database Management Systems, Pattern Recognition.

EXPERIENCE

BlackRock, India - Software Developer (Data & AI, Data Ops Engineering Team)

July 2020 - July 2022

- Developed data compression, consolidation modules for **Big Data Lake** platform. Saving storage by almost **50%**
- Developed an automated data backup mechanism from primary to secondary storage farms for Data Lake.
- Lead backend developer** for a **Real Time Monitoring System** for Production Events monitoring. The dashboard is **used by 100+** managers and operators within BlackRock.
- Performed data transformation and analysis tasks on Big Data using **pySpark** and **Aqua Data Studio**.
- Optimised advanced production SQL queries that ingests client data in BlackRock's core data analytics factory.
- Tools and Libraries used: Hadoop - **HDFS**, Hive, Sqoop, pySpark, YARN, Splunk, Casandra, **Kafka**, Luigi

BlackRock, India - Intern (Data & AI, Data Ops Engineering Team)

Jan 2020 - July 2020

- Developed an **ETL data pipeline** using python removing human intervention in analytics report generation tool.
- Developed a wrapper script to optimise runtime of legacy PERL scripts by factor of N - (parallel workers)
- Integrated backend scripts with user facing dashboards using internal Broadcast Messaging System(API).
- Tools and Concepts: Unit testing, multiprocessing, python, SQL, CI/CD, Casandra API

TechTona Soft. Solutions Pvt Ltd, India - Summer Intern

May 2018 - July 2018

- Carried out research on open source cyber security tools and submitted report on the best suitable tools for Vulnerability Assessment and Penetration Testing(VAPT) using Kali-Linux environment.
- Wrote **20+ test cases** for different C++ modules interacting with VAPT tools for Penetration Testing.

PROJECTS

NLP Based General Purpose Chatbot <https://md-1-chatbot.herokuapp.com/>

- Developed a light weight Flask based Chatbot that can give movie recommendations, News, Weather and helps users download songs from YouTube in mp3 format.
- Tools and Concepts used: NLP using Spacy, **TensorFlow**, **Recommendation** model, **REST API**, **Flask**, **Firebase**.

Data Visualisation Dashboard <https://think-in-graphs.herokuapp.com>

- Developed a complete data visualisation tool using **Dash** and **Plotly** python libraries.
- Users can select graph types, upload multiple files, select X,Y axes, conditional filtering and interact with graphs.

MeshMapp [github](#)

- Developed a **mesh network based** communication and navigation **android app** useful during Natural Disasters.
- App was developed as a part of Microsoft's **Codefundo++ Hackathon** in a Team of 3 members.
- Added features such as Group Chat, Location caching, offline maps and navigation using google maps API.

SKILLS

Languages

*C++ , JavaScript, Unix/Bash, Python, Perl

*Elementary Proficiency

Web Development

HTML, CSS, *Node.js, Express, MongoDB, Flask, REST API, *React

Tools

GIT, Postman, Splunk

Big Data

pySpark, Hadoop HDFS, Sqoop, Hive, Advanced SQL

LEADERSHIP & EXTRACURRICULAR

- Mentor for 3 teams of undergrads (4 students each) for their Software development project, as a Course Assistant.
- Participated in Firm wide CTF(CatchTheFlag) event at BlackRock and was amongst Top 20 from 120 odd teams.
- Performed at various cultural events in an across campuses as a part of dance crew 'Blitzkrieg' during undergrad.
- Volunteered in Covid Warrior group where we helped arrange resources like hospital beds, medication etc. for people facing shortage during second wave of covid-19 in India.