SUBHADEEP BHATTACHARYYA

Linkedin: https://www.linkedin.com/in/subhadeep-bhattacharyya

Personal: https://imjuoy.github.io/

EDUCATION

Carnegie Mellon University

May 2018

subhadeb@andrew.cmu.edu

(412)519-8695

■ Master of Information System Management

Major Courses: Cloud Computing Internet Of Things Distributed Systems Web Development NoSQL DB Linux and OS

Kalinga Institute of Industrial Technology

May 2012 GPA: 3.7

Bachelor of Technology in Computer Science and Engineering

IZILI COLLANDA DAZ

SKILLS SUMMARY

■ Languages: Java, Android, JavaScript, Python

• Cloud Platforms: AWS, GCP, Azure, Heroku

■ Blockchain Frameworks: Neo, Ethereum

■ Big Data Frameworks: Kafka, Samza, Spark, Hadoop, Hive

■ Databases: Oracle, MySQL, MongoDB, HBase, SQL Server, Redis

■ Tools: Siebel CRM, JIRA, Kubernetes, Docker, Git, Bit-Bucket, SAS EM

CERTIFICATIONS

OCA (Oracle, 2015)
 ITIL Foundation (APMG, 2015)
 Professional Scrum Master I (Scrum.org, 2017)

WORK EXPERIENCE

Carnegie Mellon University

Graduate Research Assistant, Institute Of Software Research

Pittsburgh, Pennsylvania, Jan 2018 - Present

Advisor: Zack Coker, PhD Student, School of Computer Science

Worked on the analysis of directive violations in the Android framework. Built scraping applications for GitHub and Stack overflow to identify
practical cases of state-based directive violations. Working on building a tool to automatically fix state-based directive violations.

Web Developer, Heinz College

Pittsburgh, Pennsylvania, May 2017 - Present

Re-engineered the admissions department CRM email campaign by converting non-responsive messages to responsive messages so as to improve
mobile user experience.

Tata Consultancy Services

Full Stack Software Engineer

Mumbai, India and Riyadh, Saudi Arabia, Sep 2013 - April 2017

- Accomplished the bifurcation of an enterprise Siebel CRM application for B2B and B2C customers to improve application throughput and total uptime. Led the seamless migration of 3 million production records using PL/SQL procedures and server-side shell scripts. Deployed and developed numerous Siebel CRM objects as a part of product migration. Developed server side process optimizations through shell scripts and cron jobs. Streamlined business process flow by analysing production defects and fixing redundancies in the Lead Management and Home Business Unit functionality so as to reduce revenue loss. Led the war-room defect resolution for fingerprint authentication implementation across KSA.
- Single-handedly developed the web-based crop procurement module of a cross-platform application named mKRISHI a TCS project aimed at digitalizing agriculture in rural parts of India.

KEY ACADEMIC PROJECTS

Blockchain Prototype Implementation, Carnegie Mellon University

Spring 2018

Currently working on the trusted data feeds of a peer-to-peer Blockchain using LinkedIn for a start-up which plans to implement its own currency
for global recruitment services.

Real Time Lyft/Uber like Cab Matching Service, Carnegie Mellon University

Fall 2017

 Processed multiple streams of GPS data relayed through Apache Kafka producers, using Apache Samza consumers to enable a driver matching service like Uber/Lyft. Deployed the Kafka and Samza stream on the YARN provisioned on AWS EMR.

High Performance Twitter web-service, Carnegie Mellon University

Fall 2017

Developed a high-performance web-service deployed on Undertow to handle queries on 1 TB of raw Twitter data. Performed ETL for data filtering
using Hadoop Map-Reduce (Batch Processing) provisioned on AWS EMR to load the data in SQL Server and HBase. Used query optimization
techniques such as indexing, thread-pooling and sharding on SQL server and region-split, hashing on HBase, to serve 10K RPS for each web service.

Social Network Backend Implementation, Carnegie Mellon University

Fall 2017

Used My SQL on AWS RDS to store user id, password and implemented a web-service on AWS EC2 to replicate the login process. Used HBase over AWS EMR clusters to store friends data for users. Used Mongo DB to store 16 GB timeline data including status updates and developed a web-service to display friends, their status updates, conversations on successful login.

Input Text Predictor using Hadoop Map-Reduce, Carnegie Mellon University

Fall 2017

Implemented a batch-processing Map-Reduce solution to pre-process 10 GB of data using AWS EMR clusters. Used the cleaned data for input text
prediction through n-gram modelling. Finally performed caching using Redis to improve application throughput.

Iterative Data Processing using Spark, Carnegie Mellon University

Fall 2017

Used Apache Spark over AWS EMR clusters to iteratively process 10 GB of raw Twitter data to generate follower and followee count. Replicated
the PageRank algorithm on the data to generate user influence.

LEADERSHIP AND AWARDS

- Mentored the first women's IT team in Saudi Arabia on the deployment of Siebel objects in production.
- Best performer award for all-round work during B2B application cutover and delivery.

2017 2017