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SNEHAL THAKUR

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EDUCATION

University of Massachusetts Amherst
Masters in Computer Science

Fall 2021 - 2023

Veerмата Jijabai Technological Institute
B. Tech in Electronics and Telecommunication

July 2015- May 2019

EXPERIENCE

Amazon Web Services(AWS), USA

Software Development intern

Jun 2022 - Present

- Developing a robust mechanism for routing customer configurations for AWS's Trusted Advisor service.
- Secured global database, preserved data contract & generalized data to use other AWS resources which is convenient through integrated architecture.
- AWS resources used: DynamoDB, Lambda, CloudWatch, API Gateway, CloudFormation, S3, IAM and Route53

University of Massachusetts Amherst, USA

Software Developer student assistant

Nov 2021 - Feb 2022

- Developed a frontend and backend application for School of Public Health and Health Sciences using HTML, CSS, SQL, Javascript.
- Application will be helpful in health related research in the domain of HIV transmission risk determinants.

Schneider Electric, India

Deputy Manager - R&D

Jul 2019 - Aug 2021

- Collaborated on a remote monitoring system used for analyzing the performance and the working of connected devices such as Industrial drives, Agri modules, Solar drives, Switchgears, etc.
- Connected all the Modbus devices to the cloud through the platform which lead to significant growth and revenue for the company.
- Provided valuable data into the hands of the users using analytics in order to make quick decisions remotely.
- Assisted production support team & resolved software issues efficiently of other switchgear products(Cline, Bluetooth-based ACB).

Centre of Excellence, VJTI, India

Research Assistant

Nov 2017 - Jun 2019

- Prepared a test-bed for cyber-physical critical infrastructure for different industrial use-cases using machine learning & Blockchain.
- Created smart systems to perform & mitigate different attack vectors by taking preventive measures using feedback mechanism.

Bhabha Atomic Research Centre (B.A.R.C)

Summer Intern

May 2018 - July 2018

- Developed a graphic driver for LCD/TFT controller on micro-controller platform using image processing & algorithm optimization.

PROJECTS

Product Review Sentiment Analysis

2021

- Analyzed Amazon.com Reviews and Ratings using text preprocessing techniques like Bag of words, TFIDF, Tokenizer from Keras .
- Applied Deep Learning models like BERT, LSTM, CNN and compared their performances by tuning the hyperparameters.

Big Data Analytics using MapReduce for Movie Recommender System

2021

- Implemented MapReduce library in JAVA with fault tolerant capabilities which would be used for analyzing Movies dataset efficiently.

Bloom – Fitness Manager Web Application using Node.js, MongoDB, JavaScript

2021

- Developed a platform for tracking physical fitness using GoogleFit API & mental fitness by adding a lifestyle tracker and healthbot.
- Incorporated a healthy recipe guide & Retrospective Tracker for assisting users to adopt better daily habits using Spoonacular API.

Anomaly Detection and blockchain based Monitoring System for Enforcing Wastewater Reuse

2019

- Created a wastewater recycle control system for its efficient management & coordination among industries & the government.
- Implemented a tamper-proof record of IoT meter readings using Blockchain and Machine Learning techniques.

SKILLS

Programming

Python, Java, C

Machine Learning

Pytorch, Keras, SKLearn, NLTK, Numpy, Pandas, Matplotlib, Apache Spark

Web and Blockchain

HTML,CSS,Bootstrap,Javascript,PHP,Nodejs,MySQL,SQLite,Oracle,Mongodb,Solidity,Ethereum,Hyperledger

RESEARCH

1.Blockchain and Anomaly Detection based Monitoring System for Enforcing Wastewater Reuse.

IEEE 2019, India

2.Blockchain based Distributed Consensus for Byzantine Fault Tolerance in PMU Network.

IEEE 2019, India

AWARDS & EXTRA-CURRICULAR

2018-19 WRC Blockchain Hackathon (Winner); Global Water Hackathon (1st Runner-up); Siemens Hackathon (1st Runner-up)

2016-19 Volunteer at Teach for India (NGO) & Teacher at Prarambh Shiksha (NGO)

2016-18 Event Head : Pratigya , Technovanza(Marketing & Sponsorship)