Jalpa Deepak Patel

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EDUCATION

Master of Science in Computer Science, Co-op University of Windsor

Windsor, ON | June 2022

Bachelor of Technology in Computer Science Engineering

India | June 2018

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

SKILLS

Languages: Python, Java, C, PHP, C#, Bash, SQL

Web Development: Angular JS, JavaScript, HTML/CSS, Bootstrap

Technology: Git, Machine Learning, AI, Linux, AWS, MySQL, Docker, MongoDB, Mobile App Development, IoT

WORK EXPERIENCE

Graduate Assistant and Tutor | UNIVERSITY OF WINDSOR

Windsor, ON | Jan 2020 - Present

- Lead assistant for Relational Database, Advanced Systems Programming, Computer Architecture and Theoretical Foundations of Computer Science
- Tutored Design and Analysis of Algorithms course for concepts of **Dynamic Programming, Graph Algorithms, Searching** and **Sorting and Complexity Analysis**
- Instructed in writing optimal code to address problem-solving, time and space complexity
- Automated the task of loading the student submissions on local machine using **Python** scripts

IT/Software Developer- Coop | GROUND EFFECTS LTD.

Windsor, ON | May 2020 - Aug 2020

- Reduced web page loading time by 20% by optimizing data loading and management from MySQL
 Relational Database
- Optimized MySQL database queries, stored procedures, and the efficiency of SQL Server Reporting Services
- Worked on report customizations and writing custom multi-select dropdown driver using **Node.js**

Software Engineer | IESOFT Technologies Pvt. Ltd.

India | May 2018 - Jul 2019

- Handled customers, orders, and inventory data on a scalable database system on different servers
- Implemented agent route tracking system, which accelerated business growth by 15
- Simplified the use of CRM System by developing elastic search and CRON job APIs

Intern (Software Developer) | Technolexis Pvt. Ltd.

India | Jan 2018 - May 2019

- Worked on photogrammetry and IoT project to create a 3D Body Scanner
- Programmed to save the results from the sensors and hardware devices to meet the project requirement
- Achieved the target of creating a 3D printed model from photos by programming sockets and using Python

VOI UNTEER EXPERIENCE

Open-Source Developer | Pathways Education

Toronto, ON | Aug 2021 - Dec 2021

- Worked on developing a platform for **Open-Source** developers to contribute
- Conducted relevant market-scan and checked the relevant software development guidelines

Machine Learning Researcher | WINAIML

Toronto, ON | Mar 2020 - Sep 2020

- Worked on Machine Learning tasks involving Exploratory Data Analysis(EDA) and NLP
- Contributed by preparing and maintaining datasets for the research project

• Developed baseline Machine Learning Models to compare with the proposed research model and documented the findings

PROJECTS

Resource Allocation Optimization using RL Python, Deep Learning, Reinforcement Learning, Big Data

- Optimized the allocation of resources on cloud computing system using a reinforcement learning algorithm
- Reduced data loss during training of model to increase model efficiency using Python

Malware Prediction on various devices

PYTHON, DEEP LEARNING, AUTOENCODERS, EDA

- Classified malware-based applications using Autoencoders
- Increased the efficiency of Autoencoders algorithm by comparing it to different Deep Learning models

Social Media Content Analyst Tool

PYTHON, NLP, DATA ANALYSIS, SOCIAL NETWORK ANALYSIS

- Designed a system to identify reliable tweets on microblogging websites like Twitter
- Used Social Network Analysis to find groups of Informative Tweets and used State of Art models

Missionaries and Cannibal Problem

JAVA, Al. SEARCH ALGORITHMS

APR 2018

- Compared various AI search technique algorithms to solve the Missionaries and Cannibal Problem
- Analyzed time and space complexity for implemented algorithms using Object-Oriented concepts

Power Spy Java, Internet of Things (IoT), C#

- Designed IoT project to record electricity consumption trends to identify faulty appliances
- Developed a mobile application to view the results recorded from sensors

JASS - Android application

JAVA. ANDROID APPLICATION DEVELOPMENT

- Designed and developed a native Android Application that helps users to search songs by searching any phrase from the lyric of the song
- Developed the problem-solving application to include speech and text input from an offline music playlist s

ACHIEVEMENTS

Completed Technology Entrepreneurship Programme, Indian School of Business Jun 2016 - Jun 2018 Published a technical paper related to Data Analysis and IoT in IRJET journal Completed SAP ABAP Course TAW10 & TAW12 modules AUG 2016 - FEB 2017 Participated in an Accelerator for Product Development, JNTUH JUL 2017 - MAY 2018 Organizer of coding events at Technical Association of CS, SMEC AUG 2014 - AUG 2017