

PRANAV SAHU

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EDUCATION

Master's of Science in Computer Science | Binghamton University, SUNY

August 2018 - May 2020

GPA : 3.37

Bachelor's of Engineering in Information Technology | University of Mumbai

August 2014 - June 2018

TECHNICAL SKILLS

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

Web Technologies: HTML, CSS, Bootstrap, Spring, JavaScript, Node.js, Express.js, Angular.js, React.js, Passport.js

Databases: Oracle SQL, MySQL, PL/SQL, MongoDB, Neo4j

Frameworks and Tools: IntelliJ, Visual Studio, Heroku, Jupyter Notebook, Microsoft Office, Tableau, RStudio, Codeigniter 3

Courses: Programming System and Tools, Design Patterns, Database Systems, Programming for the Web

PROFESSIONAL EXPERIENCE

ValuAg LLC Summer Project | Software Intern | Binghamton NY

June 2019 - August 2019

- Constructed a mobile application on Unity Engine and C# with an aim to give a platform to local businesses in Binghamton to promote themselves and deliver information about different points of interests
- Led a team of four and took responsibility to complete Database connectivity for storing user progress JSON objects on a database deployed on online server

MindTech Solutions Private Limited | Software Intern | Mumbai India

December 2017 - January 2018

- Learned and utilized R studio to complete cost analysis of a cars dataset using linear and geometric regressions
- Created a training model by performing linear regressions and ignored variables based on R squared values, compared the results with the testing data and concluded that cost of cars were affected by various conditions

PROJECT EXPERIENCE

YelpCamp

JavaScript, Express.js, Node.js, MongoDB, HTML, CSS

- Implemented a functional blog application for adding reviews about different places utilizing HTML, CSS, JavaScript, Express.js and MongoDB along with RESTful routes
- Developed features to view, add comments to different user posts and preventing deletion of other users posts without proper authorization with the use of passport.js along with using moments.js to keep track of when user posts comments

Sensor Data web-service

JavaScript, Express.js, Node.js, MongoDB, HTML, CSS

- Stored and retrieved sensor data, sensor types json objects from MongoDB using react, axios web-service and client-server based UI portal with help of JavaScript, Express.js, Node.js and Mustache

Student Registration System

Oracle SQL, PL/SQL, Java

- Queried a database to retrieve various students information consisting of name and GPA using SQL queries
- Created an interactive menu driven Student Registration system using PL/SQL, JDBC, Java maintaining Integrity using stored procedures, functions, cursors and triggers

Java Design Patterns

Java

- Evaluated a race driver's state of mind with the help of State Pattern to determine whether he was calculative, confident or reckless based on position in a race
- Parsed through an input file updating an ArrayList storing initial driver data namely number of miles travelled by a driver, also used a TreeMap utilizing driver miles as key and updated positions of drivers
- Updated positions of drivers by adding new miles to previous miles when a new line was read and set state of mind to reckless if two or more drivers positions were same comparing values from TreeMap created

String Alignment

Python

- Performed DNA string sequence alignment using three algorithms namely Brute Force Algorithm, Needleman Wunsch Algorithm, Hybrid Algorithm
- Concluded Hybrid Algorithm was fastest of three algorithms to return the longest matched string as it made use of Recursion and Dynamic Programming

PUBLICATIONS

- Received IJIRCCE certification for the paper titled 'Prescription of Food and Medicines using Neo4j' (IJIRCCE Vol. 5, Issue 10, October 2017)

LEADERSHIP EXPERIENCE

Student Manager, Dining Services

SUNY Binghamton, August 2019 – March 2020

- Responsible for the smooth functioning of the Appalachian dining hall in Binghamton University
- Managed a group of 15 people at a time and responsible for scheduling breaks for co-workers and training new workers