Lakshmi Himaja Amrutham

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EDUCATION

ILLINOIS INSTITUTE OF TECHNOLOGY, CHICAGO, IL   DECEMBER 2022
Master's in Computer Science
Relevant Courses: Design and Analysis of Algorithms, Data Mining, Machine Learning, Cloud Computing, Big data Technologies, Mobile Application Development, Data Integration and Warehousing, Advance Data Mining, Computer Networks.
GPA: 3.33 / 4.0.

ANNA UNIVERSITY, TAMIL NADU, INDIA   2013 - 2017
Bachelor's in Computer Science
Relevant Courses: Data Structures and Algorithms, Object Oriented Analysis and Design, Database Management System, Computer Architecture, Human Computer Interaction.
GPA: 3.7 / 4.0.

SKILLS

Languages & Databases: C, C++, C#, Java, Python, Oracle MySQL, SQL, AWS DynamoDB.
Web Development: HTML, CSS, JavaScript, .Net, XML, XSLT Schema.
Tools: Jenkins, Git, Visual Studio Code, PyCharm, Eclipse, BMC Remedy, TIBCO BW, Jira, OT Integration Center, Android Studio, Splunk, Chameleon Cloud, AWS S3, AWS EMR.
Technologies/Libraries: Linux, Pandas, Numpy, Seaborn, BeautifulSoup, OpenText Content Server, Documentum, Hadoop.

WORK EXPERIENCE

Pricing Data Science Intern   2022 - Present
Camping World   Chicago, Illinois
- Analyzed multidimensional data from open source web portals, datasets sized from small to medium(10 million rows). Performed Exploratory Data Analysis: Data Integration, outlier analysis, missing value treatment as part of data preparation.
- Queried SQL data sets and cleaned it with Python for modeling. Proposed a Machine Learning model with Linear and Logistic Regression for accurate Price Prediction of Recreation Vehicles.

Senior Systems Engineer   2017 - 2020
Infosys   Hyderabad, India
- Established Javascript in OT Integration Center for mapping and migrating metadata from Documentum to OpenText platform through OpenText Content Server. Led UI development team to achieve transparent design and mapping of database columns.
- Composed scripts to Deploy/Undeploy, Start/Stop the EAR files, services and adapters in production. Worked on functional, integration, system and performance tests to ensure application performance levels are achieved.
- Designed BW processes to interact with EMS/JMS servers, devised and configured Database Schemas. Monitor and manage support queues on a daily basis to meet the 99.5% SLA and to ensure a high level of customer satisfaction.

Systems Engineer Intern   2017 - 2017
Infosys   Mysore, India
- Constructed a Webpage "Course Demy" in C# utilizing MVC and web services. Application was intended for in-house communication between peer systems in organization, thereby removing need for a dedicated server.
- Built a Website "Food Orders" devised using TIBCO BW software employs XSLT Schema as structure for web page, JAVA for retrieving various captcha codes on webpage for each login session and SQL to retrieve restaurants information.

PROJECTS

Exploring NoSQL Database   2021
Illinois Institute of Technology   Chicago, IL
- Explored AWS DynamoDB NoSQL database in depth including: query language, data representation, data types, scalability, data consistency, performance, security and understanding underlying implementation.

Android Studio   2021
Illinois Institute of Technology   Chicago, IL
- Constructed an android application 'Open Weather' in Java, worked with APIs to collect weather related data. Handled end to end process, from designing and building, to code analysis testing, debugging and implementation of application.
- Created new UI Screens utilizing XML, Constraint layout, Swipe layout, Recycler Views, Options Menu, Sub-menu and Alert Dialog Box and also developed a Navigation Drawer for application to provide better navigation of apps features.
- Developed a seven-day weather layout for weekly data and hourly prediction in form of a recycler view. Incorporated functionalities changing metrics of data presented, weekly weather data and changing location.

Sorting Techniques   2021
Illinois Institute of Technology   Chicago, IL
- Created a cloud instance on chameleon cloud service where multiple virtual machines are deployed for evaluating performance of internal and external sort on a single memory node for 1gb, 4gb, 16gb, 64gb files leveraging Gensort.
- Compared above implementation with Linux's Generator and Validator sort utilities based on evaluation metrics of Data read/ write, Sorting Time, Overall throughput, Overall CPU utilization and Average memory utilization.