SHREENIDHI SRIRAM

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EDUCATION

The University of Texas at Dallas, TX, United States **Aug 2021 - May 2023 (Expected)**

Master of Science in Information Technology and Management

Coursework: Data warehousing, Big data, Databases, Spreadsheet modeling analytics, Marketing web analytics, Project management.

College of Engineering, Guindy, Anna University, Chennai, India **Aug 2017 - May 2021**

Bachelor of Engineering in Computer Science and Engineering

Coursework: Probability and Statistics, Machine Learning, Software engineering, Data structures, Design and analysis of algorithms.

TECHNICAL SKILLS

Languages and Technologies: Python, Java, C, C++, Guice, REST, HTML5, CSS3, JavaScript, Linux (Shell), Swagger.
Databases and DevOps Tools: MySQL, Microsoft SQL Server, DynamoDB, Docker, Git, Github, Atlassian Jira, Scrum, Agile.
Visualization Tools and AWS: Tableau, Microsoft PowerBI, Microsoft Excel, AWS Lambda, ECS Fargate, EC2, CloudWatch, S3.
Certifications: Oracle Certified Associate Java SE 8 Programmer I, AWS Certified Cloud Practitioner.

PROFESSIONAL EXPERIENCE

Intel Corporation, Santa Clara, CA, United States **Sep 2022 – Present**

Graduate Technical Intern (BI & Data Analytics)

- Created and maintained data pipelines, databases, and dashboards to convey complex data insights to business stakeholders.
- Developed ETL processes to manipulate data, restructured Jira databases, and used Microsoft SQL to store weekly snapshots.
- Employed JQL to extract data from Jira and Power query to transform and load data from multiple sources into Power BI.
- Deployed PowerBI dashboards for 6 customer projects using DAX functionalities to model data and track KPIs.
- Automated data processing and file generation by integrating PowerBI with Power Automate, simplifying the overall flow by 17%.
- Explored Microsoft Azure analytics, setting up an automated workflow for file deposit in a remote data lake storage.
- Visualized reports breaking down activity, average run-time between states, and throughput of issues for each work week.

Amazon, Seattle, WA, United States **May 2022 - Aug 2022**

Software Development Engineer Intern

- Delivered a high-quality, scalable system using Java and AWS for the backend of amazon.com (Browse) for 350 million products.
- Optimized complex metadata modeling processes achieving an 85% faster info-retrieval. Streamlined the entire workflow into one, condensing the need for 4 supplementary systems. Eliminated overhead activities associated with the current workflow.
- Built 3 RESTful APIs, deployed the applications in the AWS cloud infrastructure, and tested endpoints in Postman.
- Utilized AWS tools and services including Lambda, EC2, and S3, and orchestration technologies like Docker and ECS Fargate.
- Integrated API responses from catalog databases to help end-users validate queries for 1300+ product identifiers (indexed). Devised options to retrieve 4 million unindexed attributes using Athena, DynamoDB, HBase, EIP, etc.

ACADEMIC PROJECTS

Analysis of Vaccination Impact on Public Health: Before and After COVID-19 - Technologies: Tableau, Excel

- Used Excel and Tableau to manipulate and visualize COVID-19 vaccination data to identify insights and KPIs for decision-making.

Data analysis of Streamlined student assistance and deadline management engine - Technologies: SQL, Data Modeling, ETL

- Automated student task management and deadline tracking through ERD-defined business rules, structured data modeling, and database normalization in MySQL using ETL, reducing redundancy by 7%.

Content Recommendation and Sentimental Analysis for Twitter users - Technologies: Python, Machine Learning

- Performed sentiment analysis and topic modeling and built a recommendation system for Twitter users, classifying and visualizing 40,000 tweets as positive/negative into 140 interest categories using Word Cloud and hosted on Heroku.

Real-time Cancer diagnostic engine using VGGNET Classifier - Technologies: Python, Neural Networks, Deep Learning

- Implemented a 16-Layer deep VGGNET neural architecture as a hospital application that classifies 5 types of cancer, with an improved algorithm efficiency of 93% using SGD and ADAM optimizers. Integrated the model with a web app using Flask.

AWARDS & ACHIEVEMENTS

- 2023: Serving as **"Microsoft Student Ambassador"** for Microsoft Corporation to drive technology and promote MS products in UTD.
- 2023: Awarded **"One Intel"** by Intel Corporation for demonstrating teamwork.
- 2022: Awarded **"Fearless Innovation"** by Intel Corporation for idea generation and driving the team to excellence in innovation.
- 2021: Received **"Best Final Year Project"** award from the Department of CSE for contributing to the school project.
- 2020: Received **"Outstanding Student Researcher"** award for publishing 5 research articles in International journals.