SHREENIDHI SRIRAM

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PROFESSIONAL EXPERIENCE

Intel Corporation **Sep 2022 – May 2023**

Software Engineer (Data), Customer & Validation Solutions Engineering *Santa Clara, CA, United States*

- Spearheaded **data migration** from on-premise systems to **Azure** by sustaining **CI/CD** pipelines (**Docker, Jenkins**), which boosted business processes by **25%**. Eliminated human touchpoints through automation of file generation using **Python scripts**, reducing manual effort by **17%.**
- Mitigated data quality risks by **35%** by developing **SQL** queries, **ETL/ELT** for direct data ingestion from diverse unit sources, large-scale data processing using **Spark** and **MapReduce**, and remote file deposit in **Azure Blob Storage** and **Data lakes**.
- Developed **PowerBI (Power Query, DAX, JQL)** dashboards to visualize digital **KPIs** using **Time series analysis** to track project milestones for **230**+ software tools and customer RFQs totaling **$300M** in revenue for the organization using Agile Kanban methodology on **Jira**.

Microsoft Corporation **Jan 2023 – May 2023**

Lead Student Ambassador & Mentor, Office 365 *United States*

- Led impactful sessions using **PowerBI** reports to disseminate my analysis of the cutting-edge technology behind **Office365** products.

Amazon.com, Inc **May 2022 - Aug 2022**

Software Development Engineer, Product Knowledge, eCommerce (Browse) & AWS *Seattle, WA, United States*

- Achieved ***95.56%*** faster info-retrieval by optimizing complex metadata modeling processes and streamlined multiple workflows into **one**.
- Eliminated the need for ***4*** supplementary systems, reducing latency of data retrieval from ***15min to ~20sec*** (total workflow navigation).
- Delivered a scalable **microservices** architecture that validates **JSON** schema used in the product catalog **CI/CD** pipeline and retrieves over **25,000** product classes and ***350 million*** identifiers on amazon.com. Built ***3*** **RESTful APIs** using **SpringBoot, Java** and **TypeScript,** and tested endpoints using **OpenAPI** (**Swagger)**. Employed **Docker** to deploy applications to **AWS** using **ELK** service stack and **ECS** integrated with **API Gateway**.
- Mitigated challenges with cold-start latency and transmitting data payloads to trigger cross-functional **Lambda** invocation. Utilized **EC2** for heavy computation, **IAM** access control across regions, managed infrastructure using **EKS** and **CloudFormation**, and monitored logs using **CloudWatch.**
- Orchestrated data staging and aggregation in **S3** buckets, integrated API responses from **NoSQL** catalog databases.
- Restructured data and loaded it into **Redshift** tables to help end-users analyze and validate queries for ***1300+*** product identifiers (unindexed).

ACADEMIC PROJECTS

Enhanced Cancer Diagnosis Web Application: Real-time integration using VGGNET and Flask (Python, Neural Networks, Deep Learning)

- Implemented a 16-Layer deep VGGNET neural architecture as a hospital web 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 application using Flask.

Topic modeling with Heroku-hosted Web App: Twitter sentiment analysis and content recommendation (Python, Machine Learning)

- Performed sentimental analysis and topic modeling on the twitter dataset for users, and built a recommendation system, classifying and visualizing 40,000 tweets as positive/negative into 140 interest categories using WordCloud. Hosted the web application on Heroku.

Online Food Ordering and Reviews Management Application (Java, JavaScript, less.js, SCSS, MySQL)

- Developed a Java-based web application, established backend connectivity through MySQL, and implemented UI with JavaScript (less.js) & SCSS.

Streamlined student assistance and deadline management engine (SQL, ETL, Data warehousing, Data Modeling)

- Automated deadline tracking of student tasks through ERD-defined business rules, structured data modeling, executed complex SQL queries, stored procedures and functions, and reduced redundancy by 7% through database normalization (upto 3-NF) in MySQL using ETL.

EDUCATION

The University of Texas, Dallas, Texas, United States **Aug 2021 - May 2023**

M.S., Master of Science in Information Technology & Management | **GPA: 3.85/4.0 | Achievements:** Top 3%, Dean's Excellence Scholar.

Coursework: *Business data warehousing, Databases, Python, Big data, Project Management, Spreadsheet modeling and marketing web analytics.*

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

B.E., Bachelor of Engineering in Computer Science and Engineering | **GPA: 3.6/4.0** | **Achievements:** Top 1% in TN, ML Research Assistant.

Coursework: *Probability and Statistics, C, C++, Machine Learning, Software Engineering, Distributed computing, Data structures and algorithms.*

TECHNICAL SKILLS

Languages & deployment tools:	Python, Java, C, C++, JavaScript, Typescript, ReactJS, HTML5, CSS3, Bash, Docker, Kubernetes.
Databases & other technologies:	SQL (MySQL, SQL Server), NoSQL, Advanced Excel, Flask, REST APIs, Jira, PySpark, Hadoop, MapReduce, Hive.
Cloud Technologies:	AWS (Lambda, ECS, EC2, CloudWatch, S3, Redshift, DynamoDB, EKS), Azure (Data lakes, Blob Storage).
Certifications:	Oracle Certified Associate Java SE 8 Programmer I, AWS Certified Cloud Practitioner, Google Analytics.

AWARDS & RECOGNITIONS

- 2023: Recognized as a **"Distinguished Practitioner"** by UTD, distinguishing myself among 30K+ peers & showcasing expertise in my chosen field.
- 2023: Awarded **"Scholar with Distinction" and "Special Honors"** for demonstrating academic excellence (top 3%) throughout the Grad Program.
- 2022: Awarded **"One Intel"** and **"Fearless Innovation"** by Intel Corporation for teamwork and spearheading several teams to excel in innovation.
- 2021: Received **"Best Final Year Project"** award from the Department of CSE for the demonstration of the best final project in Senior year.
- 2020: Received **"Outstanding Student Researcher"** award for publishing 5 original research articles in peer-reviewed international journals.