Brunda Suresh

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EDUCATION:

Master of Science, Computer Science   **Dec 2021**
California State University, Sacramento, CA   GPA:3.36/4.0

TECHNICAL SKILLS:

Programming Languages: Python, R, Java, C, SQL, SML, PL/SQL
Web Technologies: HTML5, CSS, Xampp, JavaScript, PHP, Flask Framework, phpMyAdmin,
Database: MySQL, ClustrixDB, NuoDB, VoltDB, Oracle, BigQuery, RDBMS, SQL Workbench
Data Analytics: Spreadsheets, Pivot tables, MySQL, Tableau, R Markdown, RStudio
Other Tools: Visual Studio, Google Cloud, AWS, Azure, Postman

CERTIFICATIONS:

- Introduction to Big Data + Apache Hadoop Essentials, Hewlett Packard Enterprise   **Aug 2021**
- Google Data Analytics Specialization, Google with Coursera   **July 2021**
  The specialization included 8 Courses: Foundations: Data, Data, Everywhere; Ask Questions to Make Data-Driven Decisions;
  Prepare Data for Exploration; Process Data from Dirty to Clean; Analyze Data to Answer Questions; Share Data Through the
  Art of Visualization; Data Analysis with R Programming; Google Data Analytics Capstone: Complete a Case Study.
- Exploring and Preparing your data with Big Query (GCP Specialization), Google Cloud with Coursera   **Jun 2021**
- Cloud Computing 101, Coursera   **Aug 2020**

PROFESSIONAL EXPERIENCE:

Student Assistant, Caltrans, San Diego   **July 2021-Present**
- Debugged PHP script to extract xml data into csv format to analyze 900+ observations generated every minute
- Developed Python-Pandas code to automate ETL process to extract data from gzip files and load them into MSSQL Server reducing 90% of prior used data space within the server.
- Designed, Created and inserted data tables and schema into MSSQL Server along with my team reducing server workload by 32%
- Assists in research, analysis, review, and other related activities in the department

Teaching Assistant, California State University, Sacramento   **Sep 2021 - Present**
- Supervised 3 Undergraduate Accounting Sections with Data Analysis and Basics of Data Engineering in lab
- Supervised 1 Graduate Accounting Section with Big data ETL process and Data Analytics prior to Modelling
- Graded Assignments, monitored discussion groups, assisted in Lab Work and Exams

ACADEMIC PROJECTS:

Covid-19 and Vaccination Tracker using Self Designed Web Scraper   **Feb 2021-Present**
- Developed a python script to parse and extract data from HTML pages dynamically
- Preparing, Cleaning, Processing and Analyzing the collected data using R packages on Apache Spark
- Designing an interactive dashboard to Visualize the insights obtained during analysis for all possible queries.

Task Manager and Key Logger (GitHub Artic key Vault Contributor 2020)   **Sep 2019- Dec 2019**
- Designed and Implemented a management solution that can locally monitor a Linux System every 60 seconds
- Designed Python GUI module to monitor and navigate through real-time OS Statistics data with 84% accuracy
- Programmed and Deployed into the kernel a key logger that and displays key strokes on the terminal with 78% accuracy

Database Management Project   **Sep 2017-Dec 2017**
- Designed an Online art gallery Web application efficiently for Amateur Artists to sell their art works.
- Programmed web pages in JavaScript, Java, Servlets and JSP to design the front-end on glassfish server.
- Implemented MySQL Procedures, Triggers , Queries with Oracle Database at the backend with 100% efficiency.