

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, Spark

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**

PROFESSIONAL EXPERIENCE:

Student Assistant, Caltrans, San Diego

July 2021-Present

- Debugged PHP script to extract xml data into csv format to analyze 45k+ 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 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

Peer Mentor, California State University, Sacramento

July 2020 - Sep 2021

- Planned and lead discussions, icebreakers, team-building and other activities surrounding the FYS
- Coordinated and organized productive study groups for First-Year Seminar courses
- Conducted time management, study skills, general education, registration workshops/presentations
- Delivered announcements: campus events and activities, study groups, and mandatory student meetings.

ACADEMIC PROJECTS:

Covid-19 and Vaccination Tracker using Self Designed Web Scraper

Feb 2021 - Present

- Implementing multithreading using Python to parse and extract everyday data from webpages.
- Preparing, Cleaning, Processing and Analyzing the collected data 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.