JULIET KURUVILLA
Data Science Graduate Candidate

Dynamic and results-driven professional with 20+ years of expertise in project management, application implementation, training, and business process improvement, with a strong focus on financial and business applications. Currently pursuing an M.S. in Data Science and Analytics, with expertise in data analysis, visualization, and database management. Proven ability to translate business needs into actionable insights, solve complex problems, and lead teams to enhance operational efficiency.

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WORK EXPERIENCE

Business Applications Manager
Howard University Hospital
11/2018 - Present

Achievements/Tasks
- Lead and enhance business application support across critical functions, including the revenue cycle, human resources, supply chain, payroll, and finance, to drive efficiency and success.
- Oversee team operations, processes, policies, and execution to enhance efficiency.
- Collaborate with leadership to improve daily operations, meet deadlines and expectations, and recommend enhancements for operational efficiency.
- Serve as portfolio and contract manager for business applications.

Sr. Systems Analyst/Programmer
Howard University Hospital
03/2006 - 10/2018

Achievements/Tasks
- Develop custom reports and analyze data using SQL and Crystal Reports for HR, Payroll, and Finance.
- Manage ERP security, access controls, and segregation of duties.
- Conduct system analysis, design, and integration to optimize processes.
- Lead business application implementations, and upgrades.

Sr. Data Analyst
Electronics Research & Development Center of India
06/2000 - 09/2003

Achievements/Tasks
- Perform data analysis, visualization, and project coordination to support a division within the government agency.
- Support the agency team and liaise with other stakeholders to improve the division's data collection and analysis efforts.
- Collaborated with government agency division and/or external stakeholders to review, clean, and analyze data.

PERSONAL PROJECTS

Colorectal Cancer Research Project (01/2023 - Present)
- Researching on the Impact of Family History and Lifestyle Factors on Colorectal Cancer Risk.

Hospital Emergency Room Throughput Dashboard (09/2024 - 12/2024)
- Developed a Power BI Dashboard to track key metrics such as patient visits, admission rates, length of stay, and wait times, using interactive charts and slicers to highlight trends and support data-driven decision-making.

Women In Data Science Project - Kaggle Datathon Challenge (01/2024 - 03/2024)
- Developed Machine Learning models to identify metastatic cancer diagnosis within 90 days of screening and assess the impact of environmental hazards on diagnosis and treatment accuracy.

GENERAL SKILLS

Data Visualization Machine Learning

Data Preparation Project Management Leadership

Agile Methodologies Teamwork

Database Management Statistical Analysis

TECHNICAL SKILLS

Database
Oracle, MySQL, SQLite3, MS Access

Programming Language
Python, R, Java, Scikit-learn, SQL, Javascript, PHP

Other Software/Tools
Power BI, Tableau, Streamlit, Rapidminer Studio, GitHub, Microsoft Project, Visio, Smartsheet, Sharepoint, Crystal Reports

CERTIFICATES

Scrum Master (06/2019 - Present)

EDUCATION

M.S. Data Science
Howard University
06/2023 - Present   *Washington, DC*

M.S. Computer Science
Cauvery Women's College
11/1997 - 04/2000   *Trichy, India*

ORGANIZATIONS

Data Science Society (DSS) (01/2024 - Present)

Institute of Electrical and Electronics Engineers (IEEE) (01/2024 - Present)

Project Management Institute (PMI) (05/2020 - Present)

Scrum Alliance (07/2019 - Present)

INTERESTS

Art Music Reading