

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