YASHWIN BANGALORE SUBRAMANI

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SKILLS

Programming: Python, Java, C#, JavaScript, React.js, Next.js, ASP.Net, Django, jQuery, Tailwind CSS, Bootstrap
Databases, Cloud & Tools: MySQL, Oracle, MongoDB, T-SQL, AWS (EC2, S3, Lambda), Git, Docker, REST APIs, CI/CD, Agile/Scrum, Data Pipelines, Mobile Development (iOS/Android)

EDUCATION

University of Texas at Arlington - Master's in Computer Science (Arlington, TX | Expected Graduation: May 2026)
New Horizon college of Engineering - Bachelor's in Computer Science (Bangalore, KA, India | July 2022)

PROFESSIONAL EXPERIENCE

Application Developer - IBM, Bangalore, India (07/2022 - 03/2024)

- Built and enhanced enterprise applications using **Java, Spring Boot, and SQL**, improving scalability and reliability across multiple business units.
- Designed and automated workflows using **Python, REST APIs, and scripting,** cutting manual effort by **40%**.
- Implemented and supported **CI/CD pipelines**, Git-based version control, and cloud deployments on **Azure**, accelerating delivery cycles.
- Collaborated with cross-functional teams in an **Agile/Scrum** environment and managed direct client communications for timely solution delivery.

Student Administrative Support - University of Texas at Arlington, Arlington, Texas (02/2025 - Present)

- Developed an **automated SharePoint-Teams notification system** with embedded links, reducing manual follow-ups by **30%**.
- Designed **workflow automations** integrating Excel scripts, REST APIs, and Power Automate, cutting daily equipment checkout processing time by **40%**.
- Improved the accuracy of the University Center's **event database**, enhancing reporting reliability for multiple stakeholders.
- Delivered **technical reports and presentations** recommending database optimization and automation solutions to leadership.

PROJECTS

Spark-Matrix-Multiplication - Scala, Apache Spark

- Implemented coordinate (COO) and block matrix multiplication using Spark RDDs on large datasets (up to 4K x 4K), Optimized with partitioning and caching, improving efficiency on a 15 GB memory, 2-core cluster.

Sorting Visualizer - Next.js, React, Tailwind, Chart.js

- Built an interactive tool to visualize sorting algorithms (Quick Sort, Merge Sort, Bubble Sort) with real-time animations, Designed a modular UI supporting parallel comparisons and future algorithm extensions.

Wine Quality Classification - Python, scikit-learn

- Developed an ML pipeline for wine quality prediction using Random Forest, including feature engineering, hyperparameter tuning, and model evaluation, Achieved 92% accuracy on test data.

TF-IDF Search Engine - Python

- Built a document retrieval system applying TF-IDF indexing to a text corpus, Enabled fast query-based retrieval of top-ranked documents.

CERTIFICATIONS

AWS Certified Cloud Practitioner | Microsoft 365 Certified: Fundamentals | Microsoft Certified: Power Platform Fundamentals | IBM Agile Explorer