Savitha Venkatesh

SOFTWARE ENGINEER

CONNECT

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Dallas-Fort Worth, TX

LinkedIn

GitHub

Portfolio

PROFILE

Data-driven software engineer bridging the gap between data pipelines and user-facing applications by leveraging strong analytical skills and development expertise to design, build, and manage efficient software solutions.

EDUCATION

August 2018 - May 2022

UNIVERSITY OF TEXAS AT DALLAS

B.Sc. in Data Science

August 2023 - May 2025

UNIVERSITY OF WEST GEORGIA

M.Sc. In Applied Computer Science – Software Engineering

MANAGEMENT SKILLS

- JIRA, Agile, MS Office, Confluence, Git
- Public Speaking & Presentation
- Bilingual Communications
- Project Scheduling & Strategic Planning

TECHNICAL SKILLS

- **Languages:** C++, R, Python, SQL, Java, HTML, CSS, JavaScript
- **Big Data Technologies:** Hadoop, Hive, AWS S3, Google BigQuery, Redshift
- **Web Development Frameworks:** Bootstrap, Spring (Core, SpringBoot, Spring Data JPA, Spring RESTful Webservices), Angular
- **Software Development Concepts:** DevOps, Microservices, WebUi, API, ITIL
- **Development Tools:** Visual Studio, PyCharm, RStudio, NetBeams, Jupyter Notebooks, Git, Eclipse
- **Database Management:** MySQL, SQLite, Snowflake, DataGrip
- **Cloud Technologies:** AWS

EXPERIENCE

June 2022 – August 2023

Software Engineer, Application Development & Management | Cognizant

- Underwent extensive hands-on training for eleven weeks mastering **project management** and **software development concepts** and **technologies** to be well-equipped to meet client needs for their projects and tasks

Projects

- Team Project – Managed a team of five new graduates to design, develop, and launch a full-stack e-commerce shopping website allowing users to shop for handmade items using **Spring Boot**, **Spring Tool Suite**, **MySQL**, **Angular**, **JavaScript**, and **HTML**. Increased team efficiency by 20% through effective task allocation and utilization of **GitHub Task Board** for **project management,** while also putting together a presentation for the senior software engineers and executives in the ADM branch and scoring an average rating of 4.8 out of 5

May 2021 – August 2021

Data Engineering Intern, End User Computing Business Insights | VMware

Projects

- Developed a task tracker tool to track all data engineer and analyst jobs daily by reporting details of each job through **AWS Redshift** and **S3**, using **JIRA** to **schedule** and **plan** tasks for this project, and employing **Python** for the backend and automation and **SQL** queries for creating the output leading to a 25% reduction in time spent on tracking and reporting daily data engineer and analyst jobs
- Conducted a **gap analysis** on data maintained by two different pipelines (one from EDW and one from EUC Data Engineering) and edited my team's **SQL** run job using **Git** to extract data from the EDW pipeline, thus reducing data pipeline maintenance efforts by 30% and creating a streamlined and more efficient data processing workflow

September 2020 – May 2021, August 2021 – February 2022

Cloud Team Student Engineer | University of Texas at Dallas

Planned and created documentation to carry out specific tasks and functions in **Amazon Web Services (AWS)** using **Jira** and **Confluence** and created templates on **AWS CloudFormation** to provide necessary resources for the development of an application or solution

Projects

- AppStream 2.0 is a computing resource developed in response to COVID-19 and remote student learning to allow students to stream applications and access software instead of downloading them on their personal devices.
  - Tested Automated Mass Spectral Deconvolution and Identification System (AMDIS) which is one of many applications run in AppStream 2.0, and developed workflow and troubleshooting guide on **Confluence** for students and professors using AMDIS, thus reducing support requests by 15% and increasing student adoption of the platform by 40%

PORTFOLIO PROJECTS

February 2024

Down By The Fishin' Hole | UWG – Program Construction II

- Engineered a **Java-based** simulation game (**https://github.com/savitha-v/Down-By-The-Fishin-Hole**), showcasing advanced **object-oriented programming** techniques.
- The game architecture leverages **encapsulation, inheritance, and polymorphism** with its classes and subclasses. Utilized **interfaces and abstract classes** to establish a flexible and extensible design, allowing different fish behaviors and fishing hole characteristics. Implemented **exception handling** to manage runtime errors, ensuring robust game functionality. The game's design demonstrates adeptness in utilizing **Java's collection framework, employing arrays** to manage game elements dynamically. Developed a **user-friendly textual interface** with interactive menus, enabling players to navigate the game world, simulating real-world fishing experiences.
- This project underscores my proficiency in **Java's core features, design patterns, and standard libraries**, illustrating my capability to construct intricate, well-organized software solutions.