ATHIRA NAKKARA RADHAKRISHNAN

aradha@umich.edu   Mob: 571-373-6250 www.linkedin.com/in/athira-radha

Software Engineering major with experience in prime programming languages like C, C++, Python, SQL, Assembly language, and JavaScript. Knowledgeable in Agile methodology and Software Development Life Cycle. Currently I am a senior student at the University of Michigan, graduating in Winter 2025.

EDUCATION

University of Michigan- Dearborn, College of Engineering and Computer Science   Dearborn, MI

Bachelor of Science in Software Engineering   Aug'22- Present
GPA of 3.5

Henry Ford Community College   Dearborn, MI

Associate of Science in Computer Science   Aug'21- Aug'22 (Transferred)
GPA of 3.85; Dean's List (2022)

PROFESSIONAL TRAINING

Software Engineering Fellow | **HEADSTARTER AI**   July 2024 – Present

- Develop five AI projects over five weeks
- Created a portfolio website that showcases my skills and experiences

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ACADEMIC PROJECTS

GitHub and Jenkins Integration for Continuous Integration/Continuous Deployment (CI/CD):
- Java Application Development and CI/CD Pipeline Setup
- Created and managed a GitHub repository for the project.
- Collaborated with peers by forking repositories, making contributions, and managing pull requests. Maintained synchronization between local and remote repositories.
- Utilized VS Code for source control operations, including committing changes and pushing to GitHub. Integrated Jenkins with GitHub to trigger builds and tests upon code commits.

Database Management System: Database for clothing store
- Described the database requirements for the enterprise informally, then specified the database requirements using an ER diagram; convert your ER diagram into a relational database schema
- Created the database schema for the clothing store
- Using SQLite created the database and loaded some sample data into the database.
- Designed and ran 10 useful SQL queries on the database. Reported and monitored the performance of the queries.

C++ program: "Home cleaning services"
- Used strings, classes, constructors, vectors, inheritance, initialization list, dynamic binding
- The program reads different services offered by the company, takes customer orders, and apply discounts if they are eligible.

C program: Roulette Game program

- Allows users to place their bet in one of three ways. Program uses five given functions; shows instruction, make bet, get bet amount, spin wheel, figure winning.

FP metric calculator:

- Designed the user interface for a web-based enhanced version of the FP metric calculator.
- Created the design documents, Test plan documents, complete program and User manual for the FP metric calculator.
- Developed a user-friendly interface for easy interaction with this software. This tool is a calculator designed for software development, aimed at estimating the size and complexity of a software project using Function Points.

Xv6: Build and Running a xv6 kernel

- Collaborated to build and run the xv6 operating system kernel on a Linux virtual machine.
- Added and tested a custom user program, demonstrating our ability to work with and modify OS-level code.

Software Development Project Plan:

- Used Microsoft Project to develop a 3-month project plan for a software system.
- The plan based on the given budget of $1M and for 3-month from the given date

MATLAB Program: Loaded an Image into GNU Octave

- Divided the image horizontally into two parts, made one colored and one gray then concatenated the images using vertical concatenation

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PROFESSIONAL EXPERIENCE

Ecommerce Associate | **AMAZON - WHOLE FOODS MARKET | DETROIT, MI**   July 2020 - June 2021
- Trained 30 new team members to use Ecommerce Application and work culture
- Experience in handling customer complaints and solving them in a fast and efficient manner
- Managed team activities and guided to meet corporate standards

Customer Service | **WHOLE FOODS MARKET | VIENNE, VA**   June 2017 - July 2020
- Worked on an e-commerce pilot program with Amazon whole foods integration on ordering space
- Processed extensively tested and reported issues like application crashes, logical errors, in timely manner to leadership
- Worked with team leaders and store leadership to implement best practices

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SKILLS

- Languages: C, C++, Python, Java, SQL, HTML
- Operating systems: Unix, Linux, Windows
- Tools: Git, GitHub, VS Code, Visual Studio, Database Management System (DBMS), MATLAB, GNU Octave, MS- Office, Enterprise Architect, Microsoft Project, Microsoft Visio, Win Merge, Katalon Studio, Eclipse IDE 2022-06, Jenkins, Software Development Life Cycle
- Debugging, Troubleshooting, Editing, YouTube Video Creation

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ACHIVEMENTS

- Received quarterly team member of the year from Whole Foods, Vienna, VA.
- Received Certificate of appreciation as top MA VIENNA FUNDRAISER for Whole Kids Foundation from Whole Foods, Vienna, VA.