ATHIRA NAKKARA RADHAKRISHNAN

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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.

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| **EDUCATION** **University of Michigan- Dearborn, College of Engineering and Computer Science** Dearborn, MI Bachelor of Science in Software Engineering Aug 2022- Present  GPA of 3.5  **Henry Ford Community College**  Dearborn, MI  Associate of Science in Computer Science Aug 2021- Aug 2022(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

**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

**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

**SKILLS**

* Languages: C, C++, Python, Java, SQL, HTML, CSS
* 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

**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.