

# RESHMA RAGHAVAN

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## EDUCATION

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### University of Utah

Master's, Software Development

August 2022 - December 2023

GPA: 3.9

### Symbiosis International University

MBA, Communication Management

September 2013 - April 2015

### University of Madras

Bachelor's, Visual Communication

June 2009 - June 2012

## PROFESSIONAL EXPERIENCE

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### University of Utah

Research Assistant (Software Developer)

Salt Lake City, UT, USA

June 2024 - Present

- Launched a design-focused full-stack web application, enhancing user experience and backend efficiency using React.js and Next.js
- Streamlined ML workflows through Docker containerization, driving digital transformation in a DevOps environment
- Boosted research efficiency by automating workflows with Data Version Control (DVC), including a data pipeline and model registry
- Skills: React.js, Next.js, JavaScript, CSS, HTML, Python, Docker, RESTful APIs, Data Version Control (DVC), DevOps Automation

### PassiveLogic, Inc.

Jr. Machine Learning & Object Detection Engineer

Holladay, UT, USA

February 2024 - June 2024

- Enhanced model performance through training and testing across platforms
- Accelerated iteration cycles by integrating an MLOps pipeline for rapid model development
- Optimized model accuracy with timed testing and comprehensive data analysis
- Strengthened model robustness by curating a diverse object database
- Collaborated with cross-functional teams to drive project success
- Streamlined CI/CD processes with GitLab in an Agile environment
- Skills: CoreML, MLOps, Data Pre-processing, PyTorch, VertexAI, Mac Studio, Apple Vision, Google Cloud Platform (GCP)

## TECHNICAL PROJECTS

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### Recipe Sharing Website

- Implemented a full-stack web application that allows users to discover and share recipes
- Deployed React frontend on AWS S3 and Django backend on AWS EC2, leveraging cloud infrastructure for browsing and adding recipes
- Improved application architecture by using an SQLite database in the Django backend, ensuring clear data handling and modularity
- Skills: React.js, Django, SQLite, Python, JavaScript, SQL, AWS S3, AWS EC2, Backend Scalability, Infrastructure Automation

### DBT CalmSpace

- Enhanced user onboarding with streamlined sign-up and preference inputs to help deliver personalized recommendations
- Improved emotional awareness for users by tracking distress periods, providing personalized insights and recommendations
- Promoted user connectivity by facilitating the ability for users to follow others, like their progress, and engage in social interactions
- Elevated user data security with best practices for login credentials and sensitive information, and a secure, robust database
- Skills: Angular, Node.js, Express.js, MongoDB, Chart.js

## FRAMEWORKS AND LIBRARIES

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**Front-End:** React.js, Angular, Next.js, jQuery, D3.js, Chart.js

**Back-End:** Node.js, Express.js, Flask, Django, .NET, LINQ (Language-Integrated Query)

**Machine Learning:** PyTorch, TensorFlow, NumPy, Pandas, CUDA, cuDNN

**Data and Analysis:** MySQL, PostgreSQL, MongoDB, Jupyter (Notebook), Matplotlib, scikit-learn, JSON (Data format)

**Networking and Infrastructure:** Docker, Google Cloud Platform (GCP), AWS EC2, AWS S3, TCP/IP, DNS, TLS, Linux/Unix, Bash, Zsh

## CORE COMPETENCIES

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Test-Driven Development (TDD), DevOps, Containerization, Automation, Full Stack Development, Frontend Development, Backend Development, Web Development, Mobile Development, Software Development Lifecycle (SDLC), Cross-Platform Software Integration, Data Structures & Algorithms, Object-Oriented Programming (OOP), Continuous Integration/Continuous Deployment (CI/CD), Agile Methodologies, Microservices, Scalable Backend Solutions, Data Privacy and Security, Networking & Protocols, Modular Architecture, MLOps, Iterative Testing, Effective Communication, Rapid Adaptability, Resourceful Problem Solving, Goal-Driven Execution, Collaborative Engagement