

Uma Maheswari, Gujuluva Raghavan
umamaheswarigr@outlook.com | ugujuluvaraghavan@unomaha.edu | (531)-225-8524 | Spring, TX
[LinkedIn](#) | [GitHub](#)

Positive | Decisive | Responsible | Achiever | Learner

Career Profile

- Master of Science in Management Information Systems candidate at the University of Nebraska, Omaha, with a GPA of 3.78/4.00.
- Authorized to work in the U.S. with H4 EAD.
- Self-motivated, adaptable, and an eager learner, with experience working in Scrum and Agile environments.
- Strong understanding of Software Development Life Cycle (SDLC) and hands-on experience in analysis, design, development, maintenance, and support for web-based and Windows applications.
- Proficient in Amazon AWS Cloud Technologies, including EC2, Security Groups, Load Balancers, VPC, ASG, and RDS.
- Extensive knowledge of Database Administration includes provisioning Oracle servers in AWS, performing physical and logical backups, and conducting RMAN recovery.
- Participated in the 2023 FNBO Datathon, solving real-time data problems and deriving actionable insights.

Education:

University of Nebraska, Omaha – Nebraska, USA

Master of Science in Management Information Systems (GPA: 3.78/4.00) | Aug 2022 – May 2025

Systems Development Certificate (GPA: 4.00/4.00) | Aug 2021 – Aug 2022

University of Madras, Chennai – Tamil Nadu, India

Bachelor of Science in Computer Science (GPA: 3.25/4.00) | Jul 2006 – Apr 2009

Technical Skills

Languages & Frameworks: HTML, CSS, Python 3.8, Django, Vue.js (beginner)

Cloud Technologies: AWS (EC2, VPC, Subnet, VPC Peering, EBS, S3, Amplify), PythonAnywhere

Platforms & Databases: Oracle Linux Server, MS Access, MySQL, RDBMS, Database Administration

Tools & Software: PyCharm, MS Project, GitHub, Trello, Selenium, Balsamiq, Microsoft Visio, Draw.IO

Database & Modeling: AutoCAD, SQL Data Modeler, Oracle SQL Developer, Power BI

Professional Skills: Project Management, Leadership, Team Collaboration, Quick Learning, Adaptability, Problem Solving, Client Engagement.

Projects & Experience

Students' Networking System

Environment: AWS (EC2, VPC, ELB, AMI, ASG, RDS, EFS, S3), WordPress

- Designed and implemented a scalable enterprise system for students in the USA, aligning with AWS's six architectural pillars.
- Deployed RDS across two availability zones to ensure high availability and minimize failover time.
- Configured an auto-scaling group to dynamically scale based on CPU and memory utilization.
- Deployed a web application using WordPress on EC2 instances for seamless user interaction.

Real Estate & Bakery Websites

Environment: Agile-Scrum, Python 3.8, Django, HTML, CSS, Bootstrap, GitHub, SQLite, PythonAnywhere, Selenium WebDriver, PayPal REST APIs

- Developed a fully functional bakery website using Django and deployed it via PythonAnywhere.
- Integrated PayPal Sandbox API for seamless checkout and payment functionality.
- Built a real estate website based on client requirements, incorporating additional features to enhance usability.
- Managed development using Agile Scrum, estimated story points, and tracked progress with Kanban boards in GitHub.
- Delivered in four sprints, each accompanied by live demonstrations, project release plans, and burn-down charts.

Patron System for a Non-Profit Organization

Environment: Oracle SQL Data Modeler, Oracle SQL Developer, SQL, Data Mart, OLTP, AWS

- Translated business rules into logical and physical database designs using Oracle Data Modeler.
- Created and managed database tables, performing CRUD operations in Oracle SQL Developer.
- Estimated storage space allocations and hosted the database on an AWS EC2 instance.
- Designed data marts by transforming OLTP models into dimension-based structures.

FNBO 2023 Datathon

Environment: Power BI, Dash, Python, Data Analysis, Problem Solving

- Analyzed customer digital engagement behaviors, identifying trends in both new and existing users.
- Processed data through multiple stages, including dimensional modeling, normalization, PCA, and engagement scoring.
- Conducted hypothesis testing to refine insights and enhance decision-making.
- Developed a robust digital engagement scoring tool, delivering actionable business recommendations.

Hacking for Defense (H4D) Project – WHINSEC

Environment: Lean Launch Pad, Minimum Viable Product, Research

- Collaborated with Western Hemisphere Institute for Security Co-operation (WHINSEC) to assess the effectiveness of Humanitarian Law courses.
- Conducted extensive research and requirement analysis to enhance secure communication and course evaluation methods.
- Developed a Minimum Viable Product (MVP) and proposed solutions based on findings and user feedback.

Inventory Management System – Everest Gas Mart

Environment: System Development, Waterfall Methodology, MS Access, SQL

- Conducted client meetings to understand challenges in the existing inventory system.
- Performed a detailed system analysis, breaking down modular components for efficient management.
- Estimated man-hours for design & implementation, ensuring scalability for future data growth.
- Designed and deployed a centralized inventory management system, streamlining operations.