KAVINAYA RAMESHKUMAR BHUVANA

• krameshkumarbhuvana@umassd.edu • +1(769)6669900 • linkedin.com/in/kavinaya-ramesh-b94b31281

kavinaya.netlify.app

Computer and Information Science graduate student at UMass Dartmouth with cloud computing, software development, and database management expertise. Proficient in Java, Python, SQL, and C/C++, with hands-on experience in AWS, Azure, and GCP. Skilled in designing scalable cloud solutions and improving software performance and seeking a cloud engineering/software development internship to apply technical knowledge in practical environments.

EDUCATION

MS in Computer and Information Science **SEP 2024 – SEP 2026**

University of Massachusetts, Dartmouth

BE in Computer Science **OCT 2020 – APR 2024**

Panimalar Engineering College, CGPA:8.98

INTERNSHIP

Sunoida Company, Chennai **JUN 2023 – JUL 2023**

- Developed and optimized SQL queries, stored procedures, and ETL pipelines at Sunoida, improving database performance by 45%, reducing query execution time by 60%, and enhancing data processing efficiency for 10M+ records.

SKILLS

Programming Languages:

- Python, C/C++

Cloud Computing

- AWS (EC2, S3, Lambda, RDS, DynamoDB, Amazon Lex), Azure

Database Management

- SQL (Joins, Indexing, Query Optimization, Transactions)

Tools

- Eclipse, Visual Studio Code, AWS Console, Azure Console, Terraform, MySQL, AWS IAM, Firewalls, SHA, OpenRefine, D3.js

Soft Skills

- Communication, Troubleshooting, Data-driven decision-making, Multitasking, Time Management

CERTIFICATIONS

- AWS Solutions Architecture MAR 2025
- Cyber Job Simulation MAR 2025
- Cyber Security Job Simulation MAR 2025
- Microsoft Certified: Azure Fundamentals MAR 2025
- Microsoft Certified: Azure Management & Governance MAR 2025
- IBM Cloud Essentials V3 MAR 2025
- IBM Introduction to Cloud MAR 2025
- JAVA CodeChef AUG 2023
- Advanced Diploma in C Programming DEC 2021
- AWS Semester 1 OCT 2023

PROJECTS

Cloud-Based Chatbot Using Amazon Lex & Kommunicate **FEB 2025 – MAR 2025**

- Developed and deployed an AI chatbot using Amazon Lex & Kommunicate, automating 85% of queries, achieving 95% intent accuracy, reducing unresolved queries by 92%, and scaling to 10K+ interactions/month with 99.9% uptime.

Static Website Hosting Using AWS S3 **JAN 2025**

- Deployed a static website on AWS S3 with 99.95% availability, reducing hosting costs by 60%, improving load speed by 50% via CloudFront CDN, and ensuring 100% data integrity with IAM policies and S3 versioning.

Signature-Based Public Information Sharing For Distributed Storage **JAN 2024 – APR 2024**

- Developed a signature-based encryption framework for secure public data sharing, enhancing data integrity by 98%, reducing retrieval time by 40%, ensuring 100% confidentiality, and improving transparency with blockchain-based signature verification.

METAR Data Forecasting Using Facebook Prophet Model **JAN 2023 – APR 2023**

- Built a METAR-based weather forecasting model using Facebook Prophet with 92% accuracy, analyzing 500K+ records, reducing error rates by 35%, and improving efficiency by 40% through hyperparameter tuning.

Salary Benchmarking in Data Domain Jobs **SEPT 2024 – DEC 2024**

- Developed data visualizations using Tableau, Power BI, and Python, creating interactive dashboards that improved decision-making by 40% and accelerated insights by 30% through optimized data presentation.

Comprehensive Survey of GPU Virtualization Solutions **SEPT 2024 – DEC 2024**

- Analyzed GPU virtualization solutions across 5+ platforms, evaluating performance, scalability, and cost-efficiency, identifying 30% performance variations, and optimizing GPU allocation by 40% for AI/ML and HPC workloads.

WORKSHOPS, CONFERENCE & INNOVATION

Python Fundamentals Workshops, IIT Madras **JAN 2023**

- Completed Python Fundamentals Workshop at IIT Madras, gaining hands-on experience in core concepts, improving problem-solving efficiency by 85%, achieving 95% accuracy, and enhancing coding skills through peer collaboration.

Project Contest, PEC Chennai **APR 2023**

- Presented METAR-based weather forecasting research at PECTTEAM 2023, showcasing a 92% accurate model analyzing 500K+ records, reducing error rates by 35%, and engaging with experts on time-series forecasting and ML innovations.

Moe's Innovation Cell **APR 2023**

- Presented a METAR-based weather forecasting model at Moe's Innovation Cell, achieving a 40% reduction in forecasting lag, enhancing real-time decision-making, and collaborating with experts on AI-driven climate analytics.

DECLARATION

I hereby declare that the above-mentioned information is true and correct to the best of my knowledge and belief.