Vishnu Reddy Karam

Dayton | LinkedIn | 937-999-8139 | karamv1@udayton.edu| GitHub| Portfolio |

PROFESSIONAL SUMMARY

I am a highly skilled and motivated computer science professional with over 3 years of experience. I hold a Master's degree in Computer Science and have a strong background in software development, DevOps, and cloud computing. I have successfully implemented cutting-edge technologies, optimized processes, and enhanced user experiences in various industries. My expertise lies in full-stack development, agile methodologies, and leveraging cloud platforms such as AWS and Azure.

EDUCATION

University of Dayton   **Dayton, Ohio**
Master of Science in Computer Science   *GPA: 4.0*
- Coursework: Machine Learning, Data Visualization, Data Mining, Distributed Systems & Cloud Computing.

School of Engineering and Technology Jain University   **Bangalore, India**
Bachelor of Engineering in Computer Science   *August 2014 - May 2018*
- Research in enhancing the user experience in mobile applications. GPA: 9.71/10.

CERTIFICATIONS

- **AWS Certified Developer – Associate**
- **Microsoft Certified: Azure Developer -Associate**

WORK EXPERIENCE

University of Dayton   **Dayton, Ohio**
DevOps Student Worker   *June 2022 – Present*
- Reduced the time to deploy new features by 50% by migrating the university's web applications to Kubernetes, a container orchestration platform.
- Automated the deployment of new features and bug fixes using a Azure DevOps pipeline with Jenkins, Docker. This increased the uptime of the university's web applications by 99.9%, which translated into a significant improvement in the user experience.
- Configured security measures for the university's cloud environment, including IAM roles, RBAC, and SSL/TLS.
- Automated Azure VM deployment with Terraform, significantly reducing provisioning time for dev and test environments.

Accenture   **Bangalore, India**
Application Development Analyst   *February 2021 - April 2022*
- Proficiently worked with relational databases, including DB2 and SQL Server, performing SQL querying, data modeling, and ensuring data integrity.
- Developed and maintained production-quality software applications using C# and JavaScript, ensuring cross-browser compatibility and responsive design.
- Built robust backend services and integration solutions using .NET and .NET Core frameworks, enabling seamless data flow and scalability.
- Designed and implemented a modular microservices architecture, promoting scalability and flexibility in software development.
- Developed a real-time data processing system for a freight management system using Event Driven Architecture, which improved scalability, responsiveness, and decoupling.
- Actively participated in Agile project management frameworks such as Scrum and Kanban and project management tools (Git, JIRA, Jenkins), delivering projects on time and collaborating effectively with cross-functional teams.
- Utilized Azure DevOps for efficient continuous integration and deployment, ensuring smooth software delivery and optimization.

SLK   **Bangalore, India**
Full Stack Engineer   *September 2019 - January 2021*
- Designed and developed software applications using C# and .NET framework, including ASP.NET MVC, Entity Framework, and ADO.NET.
- Implemented efficient handling of web requests and responses in the front-end using React.js, Redux, and Axios, resulting in a 90% reduction in server errors.
- Designed and developed RESTful APIs using JSON and XML, and implemented security features, tested, documented, and deployed APIs to production environments.
- Enhanced user engagement by creating dynamic and interactive pages using JavaScript frameworks such as React, HTML, CSS, and Bootstrap, resulting in a 10% increase in user engagement.
- Established and maintained a robust CI/CD pipeline using GitLab, Docker, and Kubernetes, ensuring automated builds, tests, and deployments to multiple environments.
- Proficient in Agile methodologies such as Scrum, practicing Test Driven Development (TDD) and participating in sprint planning and retrospective meetings, leading to a 10% increase in project success rate.

Incede Technologies   **Mangalore, India**
Associate Software Engineer   *August 2018 - August 2019*
- Upgraded and tested an existing web app for internal communications using **Angular** and **Jasmine**; enhanced user experience and extended the userbase by three times.
- Investigated server performance and optimized it to reduce the load on the database by over 70%, by migrating from **MySQL** to **Redis** using **Node**.
- Reduced the number of QA defects by 40% by implementing professional engineering practices including unit testing and documenting the APIs using **Swagger**.

TECHNICAL SKILLS
- Programming Languages: Java, JavaScript, C#, .NET, React, Python, Bash, Go, HTML/CSS, Web services (REST & SOAP)
- Databases: SQL/NoSQL, MongoDB, SQL Server, Oracle, Relational databases
- Tools: Git, JIRA, Jenkins, Gitlab, SVN, Apache, Postman
- Cloud Platforms: AWS, Azure, Google Cloud Platform
- Data Structures: Arrays, Linked Lists, Stacks, Queues, Trees, Graphs
- Containers and Configuration Tools: Docker, Kubernetes, Terraform, Chef
- Agile Methodologies: Scrum, Kanban
- Environments: Eclipse, IntelliJ, Maven, Visual Studio, Apache, Android Studio, GitLab, Gitbash, Log4j

PROJECTS
- Collaborated to build backend services including login, CRUD operations, and look-up functionality of a webpage, using C# and .NET Core, Redis, and MySQL.
- Developing a carpool application for University of Dayton students using C# and .NET Core, MongoDB, and Node.js; integrating Google Maps API for location autocomplete, distance calculation, and city-based route selection.
- Demonstrated front-end development skills by creating a [Amazon Prime](#) clone utilizing TMDB API for movies list and frameworks such as React JS.
- Implemented **ML algorithms** (FNN, LSTM, CNN) over VerBio and Facial Expression Recognition datasets.

LEADERSHIP and VOLUNTEER EXPERIENCE
- **Organized** conference proceedings, managing 100+ speakers check-ins with 5 parallel presentations for 3 days, arranging the event logistics for the International Hackathon Conference, 2017.
- **Led** a team of 3 for SAE Baja 2018 and designed a system to reduce braking distance by 5 feet using computer vision; managed procurement and project management of an ATV with a team of 30.
- **Volunteered** for The Street Store and helped gather and distribute essentials for people in need.