

Manishkumar Manjunathan

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EDUCATION

Master of Science, Information Technology

December 2023

Arizona state University

Tempe, Arizona

- Relevant course work: Advanced Data Structure and Algorithms, Foundations of Software Engineering, Advanced Big Data Analytics/AI, Cloud Architecture, Data in the Cloud.

Bachelor of Technology, in Information Technology

May 2021

Anna University

Chennai, India

- Relevant course work: Design and analysis of Algorithm, Object-Oriented, Analysis and Design, Mobile Application, Distributed systems and Information Retrieval, Web Design and Management.

SKILLS

Programming Languages:	Python, Java, SQL, C#, bash, scripting
CI/CD Technologies:	Kubernetes(K8s), Docker, Jenkins, ArgoCD, Nexus, Ansible, Terraform
Databases:	MySQL, MS SQL, PostgreSQL, DynamoDB
Cloud (IAAS):	AWS EC2, S3, RDS, EKS, ECS, SQS, VPC, Lambda, CloudFront, CloudFormation, CodeDeploy
Tools and OS:	Git, JSON, Django, Visual Studio, IntelliJ, kernel, Microsoft Office, Linux, Ubuntu

CERTIFICATIONS

- AWS Certified Solutions Architect- Associate

VOLUNTEER/ RELATED EXPERIENCE

Software Developer

March 2022 – December 2023

Software Developers Association, Arizona State University

Tempe, AZ

- Automated provisioning and deployment using Terraform, Docker, and AWS EKS, reducing manual efforts by 80%.
- Employed Ansible for infrastructure management, developing code for Linux cluster configurations with a focus on operational and security requirements.
- Utilized Prometheus for automation management, addressing monitoring, troubleshooting, patching, scaling, updates, and alerting in DevOps and cloud infrastructure.
- Programmed RESTful APIs in FastAPI, storing data in PostgreSQL for a Web Progressive App serving over 8000 end users.
- Managed package dependencies with tools like Maven, pip, and npm, implemented SQL database processes in both On-Premises and Cloud environments.
- Collaborated in agile development with DevOps best practices, resulting in a 25% improvement in project delivery.
- Utilized microservices architecture for scalability and optimization, demonstrating effective communication and problem-solving skills.

ACADEMIC PROJECTS

An Efficient Polarity Inspection

June 2023 - August 2023

- Developed a serverless, scalable Machine Learning prediction application on AWS Lambda, achieving 80% accuracy in analyzing real-time customer and market feedback from tweets; orchestrated a cloud-based pipeline using Kinesis Data Firehose, AWS S3, Sagemaker, Athena, and Quicksight for streaming, ingestion, modeling, querying, and visualization of real-time Twitter data.

AWS Website Migration and Security Enhancement

March 2023 - June 2023

- Improved a social science research website on AWS, utilizing Amazon ElastiCache for Redis to reduce downtime by 67%, implementing security measures such as server separation, SSL/TLS encryption, restricted access controls, and AWS CloudWatch for monitoring.

Predicting Students performance

May 2022 - August 2022

- Led a team in designing and implementing a student processing program with machine learning algorithms and data visualization, achieving a baseline accuracy of approximately 93.6%, and implementing corrective measures for an average 15% improvement in project performance.

Chat application

Apr 2022 - Jun 2022

- Implemented user-friendly registration with secure authentication, designed a responsive interface, created a scalable Node.js backend supporting 500+ users, utilized WebSocket for real-time communication, and integrated MongoDB for data storage.

Stroke prediction system

Jan 2022 - Apr 2022

- Constructed a precise Stroke Prediction model in Scala (95.5% accuracy) using Random Forest and Gradient-Boosted Tree algorithms, optimizing processing with Apache Spark and Databricks, and enhancing visualization by 30% with Python libraries.