YELCHURI DINESH

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EDUCATION

Northeastern University, GPA 3.76/4.00 Boston, MA
Master of Science, Information Systems April 2024
Related courses: Database Management and Database Design, Web Development Design and User Experience
Network Structures and Cloud Computing, Advanced Cloud Computing

Vellore Institute of Technology Vellore, India
Bachelor of Technology, Electronics and Communication April 2019
Related courses: object-oriented programming, data structures and algorithms, wireless communications

TECHNICAL SKILLS

Programming Languages and Databases: Java, Python, Go, C++, mySQL, PostgreSQL, HTML5, CSS, JSON
Web Technologies : Express.js**,** Node.js, JavaScript, Typescript, Spring boot, React, Redux, Terraform (IaC), Ansible
Operating Systems and Developer Tools: Unix/Linux, Bash, GIT, Jenkins, Vs code, Jira
Cloud Technologies : AWS EC2, Lamda, S3, RDS, CloudWatch, Docker, Kubernetes, Prometheus, Kafka

PROFESSIONAL WORK EXPERIENCE

AMDOCS- *Software Developer* **Pune, India Jul 2019 - July 2022**

- Enhanced operational efficiency by segregating a large call data records into dedicated prepaid and postpaid records, resulting in a **60%** faster file processing speed and timely billing to customers
- Scaled existing distributed billing storage system to accommodate substantial customer inflow, employing **auto-scaling groups** and **load balancers** with precision. This approach eliminated significant bottlenecks, resulting in a remarkable **40%** surge in overall system throughput
- Implemented cloud-driven **design patterns** to optimize a legacy file processing system into a **AWS three-tier microservices architecture**, yielding an impressive 70% system efficiency boost
- Collaborated with the **SRE** and **DevOps** team to implement Site Reliability practices, and leveraged expertise in designing health check dashboards using **React** , **AWS IAM** protocols for optimal system functionality
- Developed **Amazon AMIs and Docker Images** for streamlined cloud deployment of automation on EC2. Configured images with software and dependencies for smooth automated deployment
- Executed cloud-based deployment, utilizing **CI/CD** pipeline methodologies via **GitHub Actions** and **Jenkins** pipelines. Leveraged AWS **CloudWatch** for application performance monitoring and logging metrics
- Managed **SLA/KPI** compliances and upheld all client level agreements without breach, resulting in a **98%** accuracy rate for SLA compliances during my tenure and had a good understanding on **SDLC** and **Agile** methodologies

ACADEMIC PROJECTS

EVENTRISE GITHUB - BACKEND GITHUB - FRONTEND

Northeastern University January 2023

- Developed a web application called EventRise which is a Responsive web application built using **MERN** stack.
- Implemented **JWT** to manage sessions esffectively and Integrated **OAuth** for streamlined signup processes.
- Carried out phased deployment of the web application on Amazon Web Services using **Terraform**, which involved creating VPCs, **multi region Infrastructure**, subnets, routes, and other network protocols like (TCP/IP/HTTPS) etc.

BUILDING AND SCALING AN E-COMMERCE PLATFORM WITH AWS INFRASTRUCTURE AND SERVICES

Northeastern University ***Github - Backend*** ***Github - AWS Infrastructure*** January 2023

- Developed a web-based application which included the implementation of 10 RESTful API's endpoints.
- Upgraded the application to support RDS for storing user data and image storage through AWS S3 bucket
- Developed a Custom AMI using **Packer**, which facilitated deployment and scaling of the web application on Elastic Compute Cloud (EC2), and leveraged **systemd** and **GitHub actions** resulting in a 50% decrease in deployment time.
- Configured **Load Balancer** and Auto scaling Application stack for scalability and to evenly distribute the application across EC2 instances It improved response time by 30%, ensuring high availability and a better user experience.
- Configured DNS using Amazon Route 53 and connected the custom domain to the Load Balancer endpoint.