KIRTHIKESH PARTHASARATHY

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⭕ https://github.com/kirthikesh

Education

Anna University — **Aug 2018 – June 2022**
Bachelor of Science in Computer Science — *Chennai, Tamil Nadu, India*

National College of Ireland — **Sept 2022 – Feb 2024**
MSc in Cloud Computing — *Dublin, Ireland*

Relevant Coursework

- Cloud Architecture
- Cloud Machine Learning
- Cloud Platform Programming
- Fog and Edge Computing
- Cloud DevOpsSec
- Scalable Cloud Programming

Professional Experience

Velozity Global Solutions — **April 2021– Oct 2021**
DevOps Intern — *Banglore, India*

- Configured Docker containers and Kubernetes clusters for scalable application deployment, reducing setup time for testing and development environments by 40%.
- Monitored and optimized cloud infrastructure on AWS, reducing response time for application health checks from 300ms to 150ms, ensuring consistent availability across production and staging environments.
- Created and implemented Infrastructure as Code (IaC) scripts using Terraform and Ansible, streamlining infrastructure provisioning and reducing setup inconsistencies by 95%.

Velozity Global Solutions — **Oct 2021 – Sep 2022**
Junior DevOps Engineer — *Banglore, India*

- Automated and optimized infrastructure provisioning and deployment pipelines using Jenkins and GitLab CI/CD, reducing deployment times for new releases from 1 hour to 30 minutes on average.
- Enhanced security measures by implementing role-based access control (RBAC) and secret management, ensuring secure API integrations for 7,000+ user accounts across development and production environments.
- Built real-time monitoring and alerting systems with Prometheus and Grafana, enabling proactive issue detection and reducing downtime by 20% across critical services.
- Streamlined containerized environments using Docker and Kubernetes, automating scaling to handle over 50,000 requests per day and reducing overall server load by 15%.

Projects

JOB PORTAL WEB APPLICATION USING CLOUD AWS | *Django, AWS Services* — **Feb 2023**

- Developed a Django-based job platform for employers to post positions and applicants to apply.
- Integrated 7 AWS services to improve functionality and scalability, including EBS, RDS, S3, SNS, SQS, AWS Lambda, and Cloud9.
- Designed the web app with different user roles (applicants, companies, admin), incorporating features for registration, login, job management, and admin tasks.
- Employed Cloud9 as an integrated development environment to streamline testing, reduce local setup times by over 50%, and enable real-time developer communication for faster troubleshooting.

E-COMMERCE WEB APPLICATION | *JavaScript, Node.js, AWS Services* — **May 2023**

- Created an e-commerce platform with a Node.js backend and JavaScript frontend, providing 4 type of products and services for online purchase.
- Integrated comprehensive shopping cart functionality into the application that allowed customers to manage up to 10 items simultaneously
- Deployed AWS services to build a scalable and resilient e-commerce architecture, leading to a 70% reduction in server downtime during peak shopping periods across four different product lines.

Technical Skills

Languages: Python, Java
Operating Systems :Intermediate in Linux (Ubuntu, CentOS,), Windows, macOS
Developer Tools: VS Code, Git, Cloud9
Technologies/Frameworks: Azure, Jenkins, Terraform, Ansible, Docker, AWS, GitHub,

Certification

- **2024 - Microsoft Certified: Azure Administrator Associate - Microsoft**