SIBI KARUNAKARAN

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SUMMARY

Graduate student in Engineering Management (MS, UTA) with 3.8 years of experience leading cloud and DevOps projects. Proven record in reducing cloud costs by 50%, improving deployment efficiency by 20%, and designing resilient systems. Skilled in cross-functional collaboration, operations optimization, and applying Lean/Agile principles to enhance business outcomes

WORK EXPERIENCE

DevOps Engineer   **Feb 2023 - Jan 2025**

Basis Cloud Solutions, Chennai, India

- Led automation of CI/CD pipelines and containerization strategy, improving deployment efficiency by 20%.
- Collaborated with cross-functional teams to implement AWS cost-optimization framework, reducing expenses by 50% while aligning resources with business needs.
- Designed high availability strategies for MongoDB, ensuring 99.99% uptime and business continuity.
- Drove adoption of monitoring dashboards, enabling data-driven decision-making for leadership.

Cloud Administrator   **Jun 2021 – Jan 2023**

- Managed AWS & Azure cloud infrastructure ensuring 99.95% uptime to meet SLA commitments.
- Implemented proactive monitoring processes, reducing incident escalations by 80%.
- Streamlined system performance tuning, minimizing downtime and improving end-user satisfaction.

EDUCATION

Master's in Engineering Management   **Jan 2025 – Dec 2026**

The University of Texas at Arlington, Arlington, TX   *GPA 3.3/4.0*

- Coursework: Engineering Management, Cloud Computing & IT Infrastructure Management, Data-Driven Decision Making, Lean & Agile Practices, Supply Chain & Logistics, Quality Management, Industrial Systems Optimization.
- Academic Interests: DevOps, Cloud & IT Infrastructure Management, Digital Transformation & IT Strategy, Emerging Technologies (AI/ML in IT, IoT, Cloud Security), Enterprise Systems & Emerging Technologies, Systems Engineering, Supply Chain Management, Lean Six Sigma, and Decision Analytics.

Bachelor of Engineering in Electrical & Electronics Engineering   **Aug 2017 - Jun 2021**

Vels Institute of Science, Technology & Advanced Studies, Chennai, India   *GPA 7.65/10.0*

- **Sponsorship Head – IEEE Events (VISTAS)**: Secured corporate sponsorships and coordinated event

SKILLS

- **Core Competencies:** DevOps & CI/CD Pipelines, Cloud Architecture & Migration, Engineering Management, Project Management, Lean & Agile, Decision Analytics, Stakeholder Communication.
- **Technical Expertise (Supporting):** AWS, Azure, Docker, Kubernetes, Jenkins, Grafana, Linux (Ubuntu, RHEL, Amazon Linux), Scripting.
- **Soft Skills:** Leadership, Communication, Team Management.

PROJECTS

Cloud Cost Optimization Framework | *Basis Cloud Solutions*

- Designed and implemented a cost-optimization strategy for AWS workloads, reducing cloud expenses by 50%.
- Automated scaling policies and right-sizing instances, aligning infrastructure with business needs.

Kubernetes Deployment Automation | *Basis Cloud Solutions*

- Built a CI/CD pipeline using Jenkins, Docker, and Kubernetes to automate microservice deployments.
- Deployed Helm charts to ensure scalability, rolling updates, and zero-downtime releases.

Disaster Recovery & High Availability for MongoDB | *Basis Cloud Solutions*

- Configured replication, clustering, and HA strategies for MongoDB, achieving 99.99% data reliability.
- Developed a disaster recovery (DR) plan for quick recovery and minimal downtime.

Compared two plant investment strategies using NPV analysis

- Performed sensitivity analysis on discount rate, costs and demand.
- Recommended optimal plan based on financial outcomes.