RAHUL SIVAKUMAR

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PROFESSIONAL EXPERIENCE

Data and AI Engineer — Jun 2024 - Nov 2024
Bausch + Lomb — St. Louis, MO

- Developed machine learning models and analyzed operational data to predict maintenance needs, reducing downtime by 20%.
- Designed ETL/ELT pipelines in Azure, improving data transformation efficiency and enabling actionable business insights.
- Architected HIPAA-compliant data strategies, ensuring secure PHI/PII management across multi-cloud environments.
- Led migration of IBM Cloud infrastructure to Azure, reducing annual costs by 15% and improving scalability.
- Automated reporting processes with Python, streamlining operations and enhancing accuracy by 25%.

Project Lead & Graduate Assistant — Jan 2023 - May 2024
SLU Student Development — St. Louis, MO

- Automated financial reporting in Python, reducing manual workload by 30% and increasing data accuracy.
- Analyzed operational data to identify inefficiencies, enabling improved forecasting and budgeting processes.
- Enhanced project workflows using JIRA and Zephyr, improving team collaboration and delivery timelines.

Cybersecurity Project Lead — Oct 2022 - Dec 2022
SLU IT Services — St. Louis, MO

- Designed a cybersecurity framework, reducing vulnerabilities by 15% and enhancing threat detection by 25%.
- Created CI/CD pipelines with Jenkins and GitLab CI, accelerating deployment cycles by 30%.
- Collaborated with stakeholders to implement AWS GuardDuty, improving real-time security monitoring.

AWS Connect Engineer - Intern — Mar 2023 - May 2023
SLU Information Technology Services — St. Louis, MO

- Developed and optimized SOPs for AWS Connect, enhancing system reliability and user experience.
- Implemented performance improvements, leading to a 30% enhancement in customer engagement metrics.

Cloud Engineer — Jan 2019 - Jul 2022
ACS Corp — Chennai, India

- Built ETL pipelines in AWS to enable real-time analytics, optimizing data delivery for decision-making.
- Led Azure migration initiatives, increasing system reliability by 40% and reducing operational costs.
- Streamlined CI/CD processes using Jenkins and Docker, shortening development cycles by 40%.

EDUCATION

M.S., Computer Science, Saint Louis University — Aug 2022 - May 2024
GPA: 3.7/4.0

B.Tech, Computer Science, SRM University, India — Aug 2015 - May 2019
GPA: 3.5/4.0

SELECTED PROJECTS

Medicare Communication Tool

- Developed a HIPAA-compliant communication tool using React.js, Node.js, and Docker, optimizing CI/CD workflows.

Multi-Factor Authentication (MFA) System

- Built an MFA system with Java and MySQL, reducing unauthorized access by 40%.

CERTIFICATIONS

- AWS Certified Cloud Practitioner
- Python Data Science
- Machine Learning Foundations
- Cloud Computing

TECHNICAL SKILLS

- **Languages:** Python, Bash, Perl, JavaScript, C, C++
- **Frameworks:** PyTorch, TensorFlow, Node.js, Django
- **Cloud Platforms:** AWS, Azure, GCP
- **DevOps Tools:** Jenkins, GitLab CI, GitHub Actions, Terraform, Docker, Kubernetes
- **Visualization:** Tableau, Power BI, Microsoft Excel