PRITI BHUNIA
Software Engineer

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WORK EXPERIENCE

Werkstudentin - Design and Development
Siemens Healthineers, Forccheim
Jan 2024 - Present | Healthcare, Research & Development

- Enhancing the digital imaging healthcare platform product, focusing on scalability and automation.
- Implemented Kubernetes deployment with event-driven auto-scaling using KEDA, optimizing resource utilization.
- Integrated Reloader to automatically restart Kubernetes resources when secrets are updated in KeyVault.
- Developing a tool to interact with hybrid Kubernetes clusters to improve operational efficiency.

Tech Stack: SpecFlow (Gherkin), C#, .NET, rke2, Azure, RabbitMQ

Senior Engineer - Design & Development
Siemens Healthineers, Bengaluru
May 2021 - Sep 2023 | Healthcare, Research & Development

- Developed a digital imaging healthcare platform product, end-to-end pipeline creation for infrastructure and application deployment, with 95% accuracy.
- Designed and implemented key features including Edge platform management, GitOps integration, proxy setup, monitoring services integration, Secret Management, rke2 integration, and automation.
- Developed and automated test cases using XUnit, BDD, TDD, Integration testing, and Goss to ensure system reliability.
- Collaborated with product owners to convert business requirements into technical solutions.

Tech Stack: C#, .NET, Kubernetes, rke2, Azure, DevOps, Ansible, PowerShell, GitOps, Git, Edge computing, Minio storage

Senior DevOps Engineer
EY Global Delivery Services, India
Sep 2019 - Apr 2021 | Finance, Consulting

- Provisioned cloud infrastructures in Azure using Infrastructure as Code (IaC) for scalability and consistency.
- Designed and automated CI/CD pipelines on Azure DevOps, improving application deployment efficiency by 95%.
- Automated compliance report generation using Azure DevOps, PowerShell script, and ARM template reducing manual effort.
- Configured performance dashboards and alerts to enhance application monitoring and reliability.
- Streamlined new client onboarding reducing the time and workforce requirements by 70%.
- Led the DevOps team for the tax vertical and mentored interns for best practices.

Tech Stack: Azure, Azure DevOps, PowerShell, YAML, ARM template, Kubernetes, KQL, SQL, Java

WORK EXPERIENCE

Cloud Engineer
Cognizant, India
Jul 2016 - Sep 2019 | Information Technology

- Automated scalable infrastructure provisioning and enforced MFA security in Azure.Automated API onboarding and migrated API management.
- Designed and implemented developer portal and custom alerts/dashboards for improved visibility and usability.
- Led and trained a team of 9 Cloud Engineers.

Tech Stack: Azure, PowerShell, ARM template, KQL, SQL, C#, Ansible

ACADEMIC PROJECTS

- **Cloud-Based Wind Speed Analysis:** Designed and deployed a wind speed analysis platform in AWS using Terraform, with real-time visualization in Streamlit and Grafana.
- **Data-Driven Test Simulation Replacement:** Developed regression models (CatBoost, Neural Networks) to replace costly electromechanical system simulations.
- **Power Cable Health Assessment:** Applied supervised, unsupervised, and semi-supervised learning for classification of cable health.

EDUCATION

West Bengal University of Technology
B. Tech in Electronics and Communication Engineering
Aug 2012 - Jun 2016 | GPA 8.77/10

Technische Hochschule Köln
MEng in Automation & IT
Sep 2023 - Present

TECHNICAL SKILLS

Programming & Scripting
C#, .NET, Python, Java, SQL, PowerShell, Bash, KQL

Cloud Platforms
Azure, AWS

DevOps & Infrastructure
Terraform, Azure DevOps, Git, Docker, Kubernetes, RKE2, Ansible

Machine Learning & Data Science
PyTorch, scikit-learn, CatBoost, XGBoost, SHAP, Optuna, Neural Networks (FNN, RNN)

Project Management & Methodologies
Agile, Scrum, Kanban, JIRA

LANGUAGES

- English - Level C2
- Deutsch - Level B1