Paresh Natarajan

(513) 338-9703 • nataraph@mail.uc.edu • Cincinnati, OH • linkedin.com/in/pareshns99/
Eligible for Full Time & Internship opportunities starting May 2024

EDUCATION

University of Cincinnati, Carl H. Lindner College of Business   Cincinnati, Ohio
Master of Science, Information Systems | Graduate Teaching Assistant | GPA**:** 3.83   Expected Dec 2024
Graduate Certificate Program: Data Analytics

SRM Institute of Science and Technology   Chennai, India
Bachelor of Technology, Electronics and Communication Engineering | Student Leader (AARUSH) | GPA**:** 3.19   May 2021

WORK EXPERIENCE

Software Engineer   Chennai, India
Cognizant   Jul 2021 – Jul 2023

- Orchestrated the development of a fully automated CI/CD pipeline in the BFSI domain, utilizing Git, Terraform, and Azure, resulting in a reduction of deployment time from 4 to 2 hours and a 75% increase in frequency. This initiative had a significant impact on the codebase, driving increased efficiency.
- Managed Helm chart configurations to seamlessly deploy and scale diverse applications, fostering efficient orchestration and maintenance within complex Kubernetes environments.
- Deployed 50+ EC2 instances, fine-tuned RDS database configurations, and optimized S3 bucket management, yielding a 40% boost in productivity.
- Led a team of 5 junior engineers, providing guidance on implementing security best practices and conducting regular vulnerability assessments. This initiative resulted in a 25% improvement in team productivity, ensuring system integrity and compliance with industry standards.

Software Engineer Intern   Chennai, India
Cognizant   Feb 2021 – Jun 2021

- Implemented automated solutions using Python, reducing manual data aggregation efforts by 50 hours monthly and incorporating performance optimizations for enhanced efficiency.
- Enhanced performance for a customer-facing portal serving 10,000+ daily users by transitioning from a monolithic app to a Microservices architecture, implementing memory optimizations to ensure optimal resource utilization.
- Engineered a robust caching mechanism using Redis to optimize data retrieval and improve system responsiveness, resulting in a 40% reduction in average API response times and enhanced user experience.

PROJECTS

Travel Companion - ChatBot   Dec 2023
- Developed a Python-based chatbot utilizing Natural Language Processing (NLP) techniques to understand and respond to user queries effectively.
- Integrated the chatbot with external APIs to fetch dynamic data, enhancing its capability to provide up-to-date information and personalized responses.

Fraud Detection System - Financial Transactions   Nov 2023
- Utilized Python and relevant libraries like scikit-learn and pandas to design and implement algorithms, achieving high accuracy rates in detecting fraudulent transactions and minimizing false positives.

Sudden Cardiac Arrest - Patient Identification   Aug 2023
- Utilized pandas for data manipulation, while employing ggplot and seaborn libraries for advanced data visualization.
- Employed advanced statistical techniques for predictive analytics, resulting in a 15% improvement in accuracy.

CERTIFICATIONS

- **AWS -** Amazon Technical Essentials   Mar 2023
- **Microsoft** - Azure Fundamentals (AZ900)   May 2023

SKILLS

- **Programming Languages**: C++, Python, .NET, HTML, CSS, React.js, Node.js, R, SQL, PostgreSQL
- **Cloud Platforms:** Azure, AWS, Docker, Kubernetes
- **Tools & Frameworks:** Tableau, Linux, Redis, Spark, PyTorch, TensorFlow