RAGHOTHAMA RAO PRANESHA

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WORK EXPERIENCE

Itron | DevOps Engineer (Sep 2023 - Present)

- Contributed solutions by taking full-time engineering responsibilities from day one despite the intern role.
- Automated system, database, and application operations using **PowerShell & Bash**, improving efficiency by **65%**.
- Engineered Ansible powered **full-stack automation platform** using **React.js, Next.js, TypeScript, and Node.js**, reducing page load times by **30%**.
- Developed **custom API endpoints** with **RabbitMQ**, improving data integrity by **25%** and ensuring secure message transactions.
- Architected a **secure backend MySQL** database, reducing query response time by **40%** in a distributed environment.
- Created **Infrastructure as Code (IaC)** solutions using **Terraform** streamlining cloud resource provisioning.
- Designed and deployed **distributed systems** using **Docker & Kubernetes**, achieving **zero downtime** and improving scalability.
- Led **engineering best practices** to optimize software lifecycle processes, enhancing deployment success rates by **20%**.
- Collaborated on software architecture and delivery of software components, ensuring compliance with industry coding standards, code reviews, source control management, build processes, testing, and operational efficiency.

Forcepoint | IT Intern (Jun 2023 - Aug 2023)

- Automated **Salesforce** payment processing using **Boomi**, reducing manual effort by **12 hours per week**.
- Identified and fixed system inconsistencies in financial transactions, saving **4 hours per week** and reducing invoice errors by **15%**.
- Synchronized transaction-level data across **six different time zones**, improving accuracy by **25%**.

Mphasis | Software Engineer (Jul 2021 – Jun 2022)

- Streamlined test automation using **Python Robot Framework & Selenium**, increasing test coverage and efficiency by 80**%**.
- Integrated **Jenkins CI/CD with Jira & TestRail**, automating workflows and saving **32 hours weekly**.
- Developed **ETL pipelines** for performance dashboards using Python, SQL and Tableau decreasing data retrieval latency by **30%**.
- Led training sessions for manual testers, improving testing efficiency by **40%** and ensuring smooth adoption of automation tools.

MicroB Software | Software Engineer (Aug 2020 – Jul 2021)

- Developed **predictive ML models** for **healthcare optimization**, reducing patient wait times by **20%**.
- Engineered a **scalable anomaly detection system** for financial applications, cutting data inconsistencies by **30%**.
- Built **CNN-based ML models** for visual recognition systems, achieving **87.76% prediction accuracy**.
- Deployed **ML models on AWS**, maintaining **99% uptime** for critical cloud-based systems.
- Automated **ETL pipelines** for financial data ingestion, reducing manual intervention by **25%**.

PROJECTS

Tailoresume | AI-Powered Resume Tailoring App (Sep 2024 – Present)

- Built an **AI-driven application** using **GeminiAPI, Google AI, and AWS**, optimizing resume tailoring and improving efficiency by **50%**.
- Designed a **user-friendly frontend** using **React.js & Tailwind CSS**, enhancing usability. Integrated **AWS Lambda & S3** for scalable file handling and processing.

CloudOps Automation | AWS Infrastructure & Monitoring (Nov 2024 – Dec 2024)

- Developed a fully automated cloud infrastructure project using **Terraform** and **Ansible**, enabling scalable deployment on local VMs.
- Containerized applications with **Docker** and deployed them using **Kubernetes** for high availability.
- Set up log monitoring pipelines with **ELK Stack** to detect and troubleshoot incidents, reducing detection time by 40%.
- Integrated CI/CD pipelines using **GitHub** Actions for streamlined deployment workflows.

SKILLS

- **Programming Languages & Frameworks**: Python, SQL, JavaScript, React,. Next.js, Node.js, TypeScript, REST API
- **Cloud & DevOps**: AWS (EC2, S3, Lambda, IAM, CloudWatch, CloudFormation), Kubernetes, Docker, Terraform, Jenkins, Ansible, CI/CD Pipelines, Bash, PowerShell
- **Databases & Data Engineering**: MySQL, TSQL, PL/SQL, MongoDB, Spark, Hadoop, RabbitMQ, Kafka
- **Machine Learning & Big Data**: TensorFlow, PyTorch, NumPy, Pandas, Scikit-learn, ETL Pipelines, LLM
- **Software Development**: Distributed Systems, Microservices Architecture, API Design

EDUCATION

The University of Texas at Dallas | MS. Information Technology and Management (Aug 2022 - May 2024)