Raghothama Rao Pranesha

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SUMMARY

Experienced DevOps Engineer skilled in Python, Django, and full stack development with proficiency in automation, system architecture, and efficiency enhancement. Expertise in building scalable SaaS applications, optimizing databases, and integrating cross-functional systems. Adept at solving complex problems, implementing clear and maintainable solutions, and driving innovation in dynamic environments. Proficient in React, Next.js, Node.js, Databases, and knowledgeable in Kafka and Docker, with a passion for creating impactful solutions.

EXPERIENCE

Itron || *DevOps Engineer Intern – TechOps Automate* **Sep 2023 – May 2024**

- Engineered an Ansible-powered automation platform, simplifying company-wide operations with intuitive, one-click solutions, leveraging Infrastructure as Code and reducing task completion time by 70%.
- Automated customer operations utilizing PowerShell, Bash scripts and Python Robot framework, integrated via Ansible, enhancing overall efficiency by 65%.
- Designed and implemented MySQL database architecture for the backend, optimizing data organization and reducing data access time by 40%.
- Developed a user-centric frontend interface utilizing React.JS, Next.JS, Typescript and Node.JS to elevate user experience.
- Integrated backend with frontend through custom written APIs, creating a full stack SaaS web application used across the company which was deployed on to respective servers using docker.

Forcepoint || *IT Intern - Business Applications* **Jun 2023 – Aug 2023**

- Collaborated cross-functionally to automate payment processing using Salesforce integrated with Boomi, reducing weekly manual work by 12 hours.
- Rectified a system loophole in company code application post-order completion, using Boomi to save 4 hours weekly.
- Improved Salesforce transaction-level dates on invoices and credit notes across various time zones for enhanced accuracy.

Mphasis Ltd, India || *Software Engineer* **July 2021 – Jun 2022**

Software Test Automation and Automated Dashboard Development

- Enhanced testing efficiency by 94% with automated testing using TestRail, Python Robot Framework, and Selenium, ensuring comprehensive test coverage and Agile management.
- Integrated Jenkins with Jira and TestRail, reducing manual tasks by 32 hours weekly and boosting team productivity.
- Reduced backlogs by 48% through developing automated performance dashboards with Python, Jira, TestRail, and SQL on Jenkins via GitHub, providing real-time, data-driven insights.
- Automated UI operations with computer vision, eliminating manual tasks and improving team efficiency by 4%.
- Engineered ETL processes and automated hourly updating dashboards, integrating with Jenkins for CI/CD, aiding in backlog analysis and decision-making.

TECHNICAL SKILLS

Languages: Python (NumPy, Pandas, Scikit-Learn, PyTorch, PySpark, Selenium), SQL, Git, UNIX Shell Scripting.
Web Technology: HTML, CSS, JavaScript, TypeScript, React.js, Next.js, Node.js, REST-API, Containerization.
Frameworks & Tools: Robot Framework, Ansible, Salesforce, Spark, Docker, Hadoop, Kubernetes, Tableau, TensorFlow, RabbitMQ.
Databases: MySQL, MS SQL, MongoDB.
Certifications: Python, SQL, Data Science Foundation, Cybersecurity Essentials, DevOps Foundations, Google-Generative AI (beginner).

PROJECTS

AutoPlat: *SaaS Automation Builder*

- Developed a SaaS application, AutoPlat, for workflow automation. Utilized modern technologies (Node.js, Next.js, TypeScript, Tailwind CSS, Prisma, Neon Tech, Uploadcare, Ngrok, Cron Jobs, Zoo, Clerk) to build a user-friendly interface with drag-and-drop functionality (React Flow) and enabled connections to popular platforms (Discord, Slack, Notion, Google Drive).
- Implemented a billing system within the app for a subscription-based model. Integrated Stripe to allow users to purchase credits and utilize the platform's workflow automation capabilities.

California State Occupation Analytics: *Exploratory Data Analysis using Python and SQL*

- Scrutinized and transformed the California State occupational data using Python (Pandas and NumPy)
- Directed an in-depth exploratory data analysis by visualizing the data using Python (Matplotlib and Seaborn) to draw insights on long-term occupational employment projection.

Smart Vineyard using ML: *Enhancing viticulture by implementing Machine Learning*

- Spearheaded the development of a highly effective machine learning model for viticulture optimization using Convolutional Neural Network (CNN) algorithm and Python, involving preprocessing and analysis of large datasets.
- Achieved an 87.76% efficiency rate in predicting and optimizing viticulture parameters during simulation.

EDUCATION

MS, Information Technology and Management (STEM) || *University of Texas at Dallas* || GPA – 3.88 2022 - 2024

Related courses: Object Oriented Programming in Python, Database Foundations (SQL & MongoDB), Intelligent Enterprise Systems with SAP, Big Data, Advanced statistics for Data Science, Cybersecurity Fundamentals.