

Raghothama Rao Pranesha

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SUMMARY

Experienced Software Engineer specializing in automation, testing, DevOps, IT security, and full-stack development. Proficient in Python, scripting, React, Next.js, Node.js, AI models, NLP and LLMs, AWS, Databases, data structures and algorithms, distributed systems and knowledgeable in Kubernetes and Docker, with a passion for creating impactful solutions. Adept at solving complex problems, implementing clear and maintainable solutions, and driving innovation in dynamic environments.

EDUCATION

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

TECHNICAL SKILLS

Languages: Python (NumPy, Pandas, Scikit-Learn, PyTorch, PySpark, Selenium), SQL, Java, Git, UNIX Shell Scripting.

Web Technology: HTML, CSS, JavaScript, TypeScript, React.js, Next.js, Node.js, REST-API, Containerization.

Frameworks & Tools: RobotFramework, Ansible, 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.

EXPERIENCE

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

- Engineered Ansible automation PaaS, leveraging Infrastructure as Code and reducing task completion time by 70%.
- Automated customer operations with scripts, cutting manual task time from 16 hours to 3 hours.
- Architected and implemented a secure backend database in MySQL, reducing query response time by 40%.
- Developed a full stack application utilizing React.JS, Next.JS, Typescript and Node.JS to elevate user experience.
- Created custom API endpoints, integrated with RabbitMQ and employed proxies throughout backend processing, boosting security and data integrity and deployed containerized builds on to 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 Jul 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.

PROJECTS

Tailoresume: AWS+Gemini application to tailor resumes based on Job description Jul 2024 – Present

- Developed, an AI-driven application using GeminiAPI, Google AI, and AWS to dynamically tailor resumes, increasing efficiency by 50% and reducing manual editing time by 70%.
- Designed a user-friendly frontend interface saving an overall 70% of time in application.

AutoPlat: SaaS Automation Builder Apr 2024 – May 2024

- Developed AutoPlat, a SaaS application for workflow automation, using Node.js, Next.js, TypeScript, and more, featuring a drag-and-drop interface and integration with platforms like Discord and Slack.
- 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

Smart Vineyard using ML: Enhancing viticulture by implementing Machine Learning May 2020 – Jul 2020

- 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.