SURAPALLI SAIKIRAN

Software Developer

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🪪 Profile

Highly skilled Software Developer with expertise in developing scalable Web 2.0 applications and secure decentralized applications (dApps) using Solidity. Experienced in optimizing cloud infrastructure with AWS, implementing CI/CD pipelines, and automating deployment with Terraform and Docker. Seeking a challenging role to apply my technical skills in cloud solutions and blockchain development, driving innovative projects and business impact.

💼 Professional Experience

SOFTWARE DEVELOPER INTERN   2024/03 – present
ITJOBXS

- Utilized modern JavaScript frameworks and tools such as Next.js and Vite.js to develop and maintain Web 2.0 applications.
- Applied Solidity to write smart contracts for decentralized applications (dApps), ensuring secure and efficient interaction with the Ethereum blockchain.
- Automated deployment pipelines using CI/CD tools, and integrated Terraform, Docker, and Kubernetes to streamline the software release process.
- Reduced AWS costs by 15% and enhanced performance through optimization of resources, implementing best practices for instance types, storage classes, and data lifecycle management.
- Enhanced comprehensive log management, monitoring, and analysis by integrating Splunk with AWS services, providing actionable insights into application and infrastructure performance.
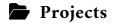
CISCO SYSTEMS INDIA PRIVATE LIMITED   2023/02 – 2024/02
SOFTWARE ENGINEER TRAINEE   Bengaluru, India

- Trained in Python, CCNA, and Java Automation Testing
- Designed a few scripts to execute the test cases automatically.
- Generated a Python script to extract info from logs.

📁 Projects

SMART_AI Project   2023 – 2024
Python-Based Automation Framework

- **Developed and Maintained Automation Infrastructure:** Created a scalable, Python-based automation infrastructure for testing various applications, ensuring efficient handling of complex workflows.
- **Test Scenario Simulation:** Designed and implemented multiple simulation environments to replicate real-world conditions, enabling accurate testing of diverse scenarios.
- **Automated Test Case Execution:** Wrote automation scripts to streamline the execution of test cases, reducing manual effort and improving overall testing speed.
- **Debugging and Issue Resolution:** Proactively identified and debugged failed test cases, resolving issues efficiently to ensure the stability of the automation suite.
- **Performance Optimization:** Optimized test scripts for faster execution and reduced downtime, contributing to improved overall system performance.
- **Reporting and Analytics:** Generated detailed reports for test results, highlighting key metrics such as pass/fail rates, error trends, and performance bottlenecks.

Scaling Scripts   2023 – 2024
Execution Server for Scalable Test Automation

- **Developed and Managed Execution Server:** Designed and implemented an automation scaling infrastructure using an execution server, enabling efficient handling of multiple test scenarios simultaneously.
- **Test Scenario Automation:** Utilized Python-based scripts to automate the execution of a wide range of test scenarios, ensuring comprehensive test coverage and minimizing manual intervention.
- **Failure Analysis and Debugging:** Investigated and debugged failed test cases, identifying root causes and applying fixes to enhance the reliability and robustness of the test suite.
- **Performance Scaling:** Implemented strategies to scale test executions across multiple environments, optimizing resource usage and reducing test execution time.
- **Continuous Monitoring and Reporting:** Set up real-time monitoring for the execution server to track performance and generate automated reports on test results, providing clear visibility into system health and efficiency.
- **Optimized Test Efficiency:** Refined the automation scripts and execution processes to maximize throughput and reduce the occurrence of bottlenecks, improving overall system efficiency and reliability.

Data Extraction from Logs   2023 – 2024
Automated BGP and ISIS Session Extraction (IPv4 & IPv6)

- **Developed Custom Log Analysis Script:** Created a Python script tailored for Glandon and Madone routers to automatically extract Border Gateway Protocol (BGP) and Intermediate System to Intermediate System (ISIS) session data from log files, supporting both IPv4 and IPv6 networks.
- **Router-Specific Session Data Extraction:** Efficiently parsed log files from Glandon and Madone routers to extract session details, ensuring accurate capture of BGP and ISIS session data in real-time environments.

- **Automated Data Storage:** Organized and stored the extracted session data into Excel sheets for easy analysis, helping teams to monitor, visualize, and track network performance and protocol health.
- **Optimized for IPv4 & IPv6:** Ensured the script could handle both IPv4 and IPv6 sessions seamlessly, making it suitable for diverse network configurations on Glandon and Madone routers.
- **Streamlined Workflow:** Automated and simplified the process of session monitoring, reducing manual labor and increasing the speed and accuracy of diagnosing network issues.
- **Actionable Insights:** The Excel outputs were designed for easy readability, enabling engineers to quickly assess BGP and ISIS session statuses, connectivity, and performance on the routers.

AI Resume Builder 🔗

Technologies: Vite.js, JavaScript, Strapi, PostgreSQL, TailwindCSS

- **AI-Powered Resume Generation:** Developed an intelligent resume builder that uses Gemini API to provide content suggestions based on user profiles.
- **Responsive UI Design:** Implemented a sleek and adaptive interface using Tailwind CSS for a smooth user experience across different screen sizes.
- **Efficient Data Management:** Utilized PostgreSQL for efficient database operations, enabling seamless storage and retrieval of user data.
- **Scalable API Integration:** Integrated Gemini API for text generation and ensured scalability of the platform for growing user demands.
- **User-Friendly Experience:** Prioritized ease of use with simple forms, live previews, and instant resume downloads in multiple formats.

AI Mock Interview 🔗

Technologies: Next.js, JavaScript, PostgreSQL, TailwindCSS

- **Real-Time Interview Simulation:** Built an interactive platform allowing users to practice interviews via live
- **AI-Driven Questions:** Integrated dynamic, AI-generated questions to simulate real interview scenarios with instant feedback.
- **Speech Recognition:** Used speech-to-text technology to transcribe user responses, enabling real-time analysis of performance.
- **Robust Backend Development:** Leveraged JavaScript and Node.js to build a reliable backend with secure session management and interview tracking.
- **Responsive Design:** Ensured a consistent user experience across devices with Next.js and React, making it easy to access from desktop or mobile.

Staking DApp 🔗

Technologies: Ethers.js,Web3,Solidity, JavaScript, Next.js

- **Decentralized Staking Platform:** Created a decentralized application allowing users to securely stake tokens through Ethereum smart contracts.
- **Smart Contract Integration:** Developed Solidity contracts for staking operations, ensuring safe and efficient token locking mechanisms.
- **Secure Wallet Connections:** Integrated popular Web3 wallets such as MetaMask and WalletConnect for seamless user onboarding.
- **User-Friendly Interface:** Designed a responsive and intuitive UI using Next.js, allowing users to easily stake and track assets.
- **Real-Time Data:** Implemented real-time tracking of staked assets, rewards, and blockchain data with Ethers.js and Web3 integration.

Muzic 🔗

Technologies: Next.js, TypeScript, Prisma, PostgreSQL, RESTful API,

- **Full-Stack Music Platform:** Developed a music streaming app featuring custom audio controls, playlists, and user-specific features.
- **RESTful API Development:** Built efficient APIs for handling music metadata, user profiles, and track management with Express.
- **Data Modeling with Prisma:** Utilized Prisma ORM for complex database relationships, ensuring fast queries and smooth user experiences.
- **Custom Audio Player:** Designed and implemented a feature-rich audio player with functionalities like play/pause, volume control, and track skipping.
- **Scalable Backend Architecture:** Built a scalable backend system capable of handling thousands of concurrent users and track plays.

DevOps To-Do App 🔗

Technologies: Jenkins, Terraform, Docker, Kubernetes, GitHub Actions

- **DevOps Showcasing Platform:** Developed a to-do app to demonstrate best DevOps practices, including continuous integration and deployment.
- **CI/CD Pipeline:** Set up a CI/CD pipeline with GitHub Actions for automatic testing, building, and deploying the application.
- **Containerization with Docker:** Containerized the app using Docker for consistent development and production environments.
- **Kubernetes Orchestration:** Deployed and scaled the app on Kubernetes, ensuring high availability and fault tolerance.

🎓 Education

KAKATIYA UNIVERSITY	2018/08 – 2022/08
ELECTRONICS AND COMMUNICATION ENGINEERING	Bhadradri Kothagudem, India
ALPHORES JUNIOR COLLEGE	2016/04 – 2018/04
INTERMEDIATE	Karimnagar, India
SADHANA SCHOOL OF EXCELLENCE	2015/04 – 2016/04
SCHOOL	Karimnagar, India

📚 Courses

AUTOMATION TESTING	2023/02 – 2024/02
SIMPLILEARN	
PYTHON FULL STACK WEB DEVELOPMENT	2022/05 – 2022/11
SOCIAL PRACHAR	
JAVA FULL STACK DEVELOPMENT	2022/08 – 2023/02
PENTAGON SPACE	

Skills

Programming (Python, Java, C, C++)

Web Technology (JAVASCRIPT, TYPESCRIPT, REACT, ASTRO)

FrameWorks (Next.JS, Vite.Js)

Blockchain (Solidity, Dapp, Ether.Js)

RDBMS (MYSQL, MongoDB, PostgreSQL)

DevOps (Git, Aws, Linux, Docker, Kubernetes, Terraform)

Testing (Web testing, DevOps testing, Functional testing)

Certificates

- Cisco Certified Network Associate 🔗
- PYTHON FULL STACK WEB DEVELOPMENT
- Automation Testing 🔗
- JAVA FULL STACK DEVELOPMENT