Vinoth Mani

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Summary

Full-stack developer with 4+ years of expertise in Python, REST API, AWS, CI/CD, and Agile practices. Proven skills in system design, SDLC, and source control using GitHub. Adept at tools like VS code, Docker, Jira, and Confluence. My expertise seamlessly bridges backend and frontend, ensuring robust and scalable solutions.

Technical Skills

Programming language: Python, REST API, Flask, Django, pytest, Anvil, Nuitka, JS, HTML, CSS, NumPy, Pandas
Database: MongoDB, Firebase, Redis, SQL, NoSQL
Cloud & CI CD: AWS – EC2, IAM, DNS, S3, Route 53, RDS, VPC, CloudWatch, SNS, SES, SQS, Lambda, Code Deploy, DynamoDB, Packer, CloudFormation (IaC), GitHub Actions, Ansible, Tools development, Test Automation
Practices: Agile development, Object Oriented Programming, System Design, Design/class documentation, SDLC
Source control & Tools: GitHub, Perforce, Keygen, VS code, postman, Docker, Meld, Jira, curl, Confluence, Swarm

Certifications

- AWS Certified Solutions Architect – Associate.
- RASA AI Developer.

Work Experience

Blockalytics, Atlanta, GA

Software Engineer - Full Stack Development   February 2024 - Present

- Currently leading ongoing backend REST API development with Flask, ensuring seamless integration for efficient frontend interaction and actively pursuing enhancements to optimize overall system performance.
- Engaged in UI development to replace Anvil, utilizing JavaScript, HTML, and CSS

Software Engineer – Co-op-Full Stack Development   July 2022 – December 2022

- Architected microservices, developed Python microservices using Docker containers, and ensured adherence to web standards for client UI.
- Led backend REST API development using Flask, achieving a notable 71% productivity surge for seamless frontend integration.
- Established CI/CD pipelines with GitHub Actions and AWS, boosting software stability by 89%. Ensured robust version control, mitigated deployment risks, and reduced lead times.
- Engineered a streamlined Python-based automated build system, incorporating API modules to achieve a 99% reduction in build time and manual efforts.
- Enhanced software integrity with a Nuitka-based binary code development while maintaining 100% software quality engineering with test automation using pytest.
- Created a Python library and deployed it to the Gemfury repository and integrated the library seamlessly with the Keygen library management system.
- Leveraged NumPy and Pandas for efficient outage detection, data collection, advanced array operations, and in-depth analysis, improving system understanding and behavior insights.

Scientific Games, Chennai, India   November 2017 - August 2021

Associate Software Engineer - Full Stack Development

- Orchestrated a 28% user base expansion for a casino platform through advanced JavaScript enhancements, leveraging Leaflet.js and TypeScript to elevate gaming experiences and market competitiveness.
- Achieved a notable 19% UI improvement in poker and slot games, optimizing performance by deploying on Amazon Web Services.
- Configured middleware components in Django for handling various aspects of request/response processing.
- Revolutionized game development by optimizing build systems in Python, and shell scripts, achieving a 100% improvement in OS compatibility and build time.
- Improved efficiency and scalability by streamlining workflows, introducing an augmented reality treasure hunt feature in gaming solutions, with a strategic initiative, yielding a substantial 30% improvement in overall code quality.
- Resolved issues and introduced a 6% faster card shuffling feature, enhancing UI rendering and functionality.
- Mentored interns on Agile methodologies, fostering a collaborative environment that stimulated creativity. Guided them in resolving advanced technical problems in Python, AWS, and Docker.

Education

Northeastern University, Boston, MA

Master of Science, Software Engineering Systems

Anna University, Chennai, India

Bachelor of engineering, Computer Science Engineering