Vinoth Mani

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Education

Northeastern University, Boston, MA   December 2023
Master of Science, Software Engineering Systems   GPA: 3.8/4.0
- Relevant Coursework: Program Structure Algorithms, Concepts of OOPS, Agile Software Development, Network Structure & cloud computing, User Interface & User Experience, Web design and Engineering, Design Patterns

Anna University, Chennai, India   March 2018
Bachelor of engineering, Computer Science Engineering

Technical Skills

Programming Languages & Methods: Python, JavaScript, ReactJS, HTML, CSS, jQuery, SASS, Agile, Object-Oriented Programming, Debugging
Framework, DB & OS: Flask, Django, RASA, MongoDB, SQL, Redis, Microservices, Packer, python library development, RESTful API, PYTEST, Linux, Mac, Windows
Cloud & Services: AWS, EC2, DNS, Lambda, RDS, VPC, CloudWatch, DynamoDB, Amazon Simple Email Service, S3, Route 53, CloudFormation, Code Deploy, System Design, Tools Development
Source control & Tools: GitHub, Perforce, CI CD, VS code, postman, Docker, Meld, Jira, curl, Confluence, Swarm

Certifications

AWS Certified Solutions Architect – Associate, RASA AI Developer

Work Experience

Blockalytics, Atlanta, GA   July 2022 – December 2022
Software Engineer - Co-op Full Stack Development
- Architected microservices and developed Python microservices with Flask REST API, orchestrated using Docker containers, and ensured client UI met web standards.
- Led backend REST API development and boosted productivity spearheading the rapid development of a Python Flask REST API, achieving a 71% boost in productivity for frontend integration.
- Implemented CI/CD pipelines for enhanced stability using GitHub Actions, Amazon Web Services, resulting in an 89% increase in software stability, maintaining version controls, while reducing deployment risks and lead times.
- Engineered an efficient Python-based automated build system from scratch, reducing build time and manual work by 99%.
- Secured code by developing tool for software binary conversion and redesigned the UI with HTML, CSS, JavaScript, and ReactJS, leading to a 17% revenue boost, all while maintaining 100% software quality with pytest.
- Engineered intuitive and responsive UIs using ReactJS, enhancing user experiences. Established metrics from the ground up, yielding a 20% boost in page load speed, a 15% rise in user engagement, and a 10% improvement in overall usability for a fully functional UI.

Scientific Games, Chennai, India   November 2018 - August 2021
Associate Software Engineer - Full Stack Development
- Spearheaded a 1.9% revenue increase and 4% product sales surge by developing a cloud-hosted web game app with JavaScript and NodeJS, overcoming pandemic challenges for seamless user experiences.
- 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, modernizing the platform and deploying it on Amazon Web Services for optimal performance.
- Revolutionized game development processes by optimizing build systems and implementing a robust microservices architecture with Docker, Python, and shell scripts, resulting in a 100% improvement in OS compatibility.
- Elevated efficiency and scalability by streamlining development workflows in the creation of innovative gaming solutions thus introducing an augment reality treasure hunt feature within application.
- Successfully addressed existing issues and introduced an innovative card shuffling feature, enhancing UI rendering and functionality by 6% faster than existing.

Additional Information

Northeastern University, Boston, MA Graduate Teaching Assistant – Agile Software Development – Part time
- Mentored students on Agile methodologies, fostering a collaborative environment that stimulated creativity and facilitated advanced technical problem resolution in Python, AWS, and Docker. This initiative resulted in a notable 40% upswing in successful project completions and a substantial 30% enhancement in overall code quality.