Vinoth Mani

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Education

Northeastern University, Boston, MA — Dec 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: RASA AI Developer, AWS Certified Solutions Architect - Associate

Work Experience

Blockalytics, Atlanta, GA — Jul 2022 - Dec 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.
- Leveraged ReactJS in creating intuitive and responsive user interfaces, contributing significantly to enhanced user experiences and product appeal.

Scientific Games, Chennai, India — Nov 2018 - Aug 2021

Associate Software Engineer - Full Stack Development

- Increased Revenue by 1.9% and grew product sales by 4% by creating a cloud-hosted web game application using JavaScript and NodeJS, defying pandemic challenges.
- Expanded User Base by enhancing a JavaScript application, attracting a 28% larger audience to the casino with feature-rich gaming experiences, utilizing Leaflet.js and TypeScript coding.
- Improved UI and Functionality by fixing issues and introduced a card shuffling feature in poker and slot games, resulting in a 19% better UI rendering with added functionality, modernizing and deployed it in Amazon Web Services.
- Optimized Game Development processes and build systems for various cloud infrastructures, establishing a microservices architecture with Docker, Python, and shell scripts, achieving 100% OS adaptability improvement.

Additional Information

Graduate Teaching Assistant – Agile Software Development – Part time

- As a **Graduate Teaching Assistant at Northeastern University**, I demonstrated strong leadership and soft skills by guiding students in Agile methodologies, fostering creativity and problem-solving in Python, AWS, and Docker projects. My collaborative approach emphasized effective teamwork, timely project delivery through CI/CD pipelines, clear communication, highlighting adaptability, and a commitment to work ethics.