SIRISH CHEJERLA

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SUMMARY

Results-driven Software Engineer with 2+ years of industry experience in software development, testing, and automation. Having experience building scalable applications, optimizing cloud-based microservices, and implementing software engineering best practices. Proficient in multiple programming languages, frameworks, and tools, with a strong foundation in data structures, machine learning, and cloud deployment. Passionate about problem-solving, performance optimization, and delivering high-quality solutions.

PROFESSIONAL EXPERIENCE

Genesys Cloud Services, Inc., Chennai, India
Software Engineer Aug 2020 – Dec 2022

- Developed and unit-tested software applications with minimal assistance, ensuring high-quality deliverables using **Java**, **Python**, and **JUnit** for testing and **Jenkins** for continuous integration.
- Engineered and optimized **Genesys Voicemail Microservices** (deployed on **AWS** and **Azure**) and **Genesys Predictive Routing** (cloud-based, AWS), improving cloud-based communication efficiency using **Docker**, **Kubernetes**, and **Azure Blob Storage** for efficient deployment and scaling.
- Automated 100+ test scenarios using **Python**, **Selenium**, and **Jest**, reducing manual testing efforts by 40% and enhancing test coverage, integrated with **Jenkins** for automated test execution.
- Provided input on the feasibility of new products by analyzing initial requirements, collaborating with cross-functional teams, and offering development estimates using **Agile methodologies** (Scrum), **Jira** for tracking tasks.
- Managed **Linux** and **Windows** test servers, ensuring 99.9% uptime for cloud services, and employed **Azure Monitor** and **Grafana** for proactive performance monitoring and issue resolution.
- Spearheaded performance and load testing for **internal APIs**, optimizing them using tools like **JMeter** and **Postman**, reducing response times by 30% and improving overall system reliability and user experience.
- Developed **Dockerfiles** and deployment scripts for **Azure Cloud** using **Azure DevOps** pipelines, accelerating microservices deployment by 20% through automation and improving scalability.
- Designed automation scripts to analyze **AI model outputs** for multi-cloud services using **Python**, **Scikit-learn** to enhancing model evaluation and deployment processes.
- Ensured adherence to software engineering methodologies and best practices, maintaining high coding standards and implementing **Git** version control with code reviews to ensure consistency across teams.
- Created comprehensive engineering documentation for developed applications using **Markdown** and **Confluence**, providing clear guidelines for future development and maintenance.
- Maintained and optimized **CI/CD pipelines**, managing **Jenkins** jobs for automated testing and deployments, ensuring smooth and consistent integration and delivery of new features.

OTHER WORK EXPERIENCE

Purdue University Northwest, Hammond, IN
Graduate Research Assistant Aug 2023 – Dec 2023

- Led research on gunshot detection for public safety, enhancing time synchronization efficiency from milliseconds to microseconds.
- Developed Purdue-TimeSync, a Python-based time clock simulation for network delay analysis.
- Conducted real-time testing at the University Police Building, improving system reliability.

Purdue University Northwest, Hammond, IN
Grader Aug 2023 – Dec 2023

- I served as a grader for two graduate-level courses: **Algorithms** and **Software Engineering**, where I assisted in evaluating assignments and providing feedback to students.

PROJECTS

Live Monitoring AI Prototype Jun 2021 – Jan 2022

- Developed an AI-powered anomaly detection model utilizing **LSTM (Long Short-Term Memory)** and **Grafana Metrics** for real-time cloud monitoring.
- Deployed the model as a **Flask API**, significantly enhancing system scalability and improving response times.
- Analyzed memory leaks and anomalies by leveraging data from staging and production environments, focusing on **Redis storage** to evaluate memory loss and optimize performance.

Introspective Journal: Diary for Self-Realization (Springer Journal) Spring 2020

- Developed a Flutter mobile app with **SQLite** for personal insight visualization.
- Implemented sentiment analysis using **NLP** techniques to track emotional trends.

TECHNICAL SKILLS

Skills: Software Development, Shell Scripting, REST APIs, Data Structures, Machine Learning, Unit Testing, Debugging, Engineering Documentation, Advanced Software Techniques, Software Estimation, CI/CD Pipeline Management, Staging Environment Maintenance
Languages: Java, Python, JavaScript, C, C++
Frameworks & Libraries:: Node.js, React.js, Docker, Flask
Tools & Technologies: Jenkins, Git, Azure Kubernetes, Postman, JMeter, Kafka, Grafana, MongoDB, SQL, Keras, Scikit-learn

EDUCATION

Master of Science in Computer Science August 2023 - May 2025
Purdue University Northwest, Hammond, IN 3.57 GPA
Relevant coursework: Software Engineering, Cloud Computing, Data Structures & Algorithms

Bachelor of Technology in Computer Science June 2016 – July 2020
Amrita School of Engineering, Coimbatore, India 3.33 GPA
Relevant coursework: Cloud Computing, Data Structures & Algorithms , Deep Learning & Neural Networks

AWARDS & ACHIEVEMENTS

Contributed to the paper P-TimeSync
A Precise Time Synchronization Simulation with Network Propagation Delays
Genesys All Star Award (Mar 2022)
Recognized for outstanding contributions to cloud automation.
Published Paper
Advances in Distributed Computing and Machine Learning (Jan 2020)
AWS Cloud Practitioner Certified (Dec 2018 – Dec 2022).