Siva Sathwik Kommi

347-323-6705 | sivasathwik.kommi@stonybrook.edu | linkedin.com/in/siva-sathwik-k | github/sivasath16

Education

Stony Brook University — Stony Brook, NY
Master of Science in Computer Science - GPA 3.50 — *August 2023 – May 2025*

Sri Krishna College of Engineering and Technology — Coimbatore, Tamil Nadu
Bachelor of Engineering in Computer Science - CGPA 9.12 — *August 2019 – April 2023*

Experience

OpenText — January 2023 - July 2023
Associate Site Reliability Engineer — *Bangalore, India*

- Categorized and ranked Zabbix monitoring alerts, and implemented an **Ansible** automation script for efficient batch clearance of 200+ outdated alerts and improving resource efficiency.
- Reorganized the Configuration Management Database by streamlining almost 2000 Configuration Items through OCS an external agent enabled by **Ansible** and Python.
- Automated the xECM application upgrade process using **PowerShell**, cutting installation time by 50% and improving efficiency.
- Promoted artifacts (such as helm charts and images) and their constituting items from development to production environment leveraging Gitlab pipelines.
- Worked with vSphere Client to create virtual machines on Linux and Windows for application and database servers.
- Automated JIRA ticket creation, reducing manual effort by 80% and saving over 10 hours weekly, leading to a substantial boost in productivity.

OpenText — July 2022 - December 2022
Software Intern — *Hyderabad, India*

- Acquired expertise in xECM products and successfully deployed xECM 22.2 products on a clustered environment, comprising Content Server, OTDS, Archive Center, Powerdocs, and Brava. Enhanced the lab environment by improving stability and scalability of the deployed products.

Projects

GoGetEm | *Go, RabbitMQ, PostgreSQL, MongoDB, Docker, Kubernetes* — April 2024 – July 2024

- Developed a highly scalable **Go** application, achieving 99.9% uptime and reduced deployment time by 30%.
- Implemented **gRPC** for secure microservice communication. Optimized user experience by seamlessly integrating JavaScript, optimizing data handling, and achieving a **20% faster page load time**.
- Designed a framework using Redis caching, DynamoDB, and pagination in PostgreSQL to reduce network usage by 35%; adapted by 7 web services within the product resulting in 10% reduction in AWS costs.
- Utilized **Docker swarm** and **Kubernetes** for high availability, load balancing, and scalable microservice orchestration. Configured **DNS entries** to ensure seamless service discovery and accessibility.

Fault Tolerant Sharded KV Store | *Multithreading, Coroutines, RPCs* — August 2023 - October 2023

- Implemented a replicated state machine using **Raft** consensus algorithm among a cluster of five servers.
- Built a fault tolerant and sharded key-value store using consistent hashing over the underlying Raft framework.
- Enhanced the system with versioning, Two-Phase Commit (2PC), and timestamp-based mechanisms to seamlessly support distributed transactions and closely align with the design principles of Google **Spanner**.

BayMax Chatbot | *Python, Rasa, BeautifulSoup4, Kubernetes, MySQL* — September 2021 - October 2021

- Developed BayMax, an e-commerce chatbot using Python and Rasa, with real-time data extraction from multiple websites via BeautifulSoup4.
- Leveraged Rasa's natural language processing (NLP) capabilities to understand and respond effectively to user queries. Trained the chatbot with intents, entities, and dialogue flows using Rasa NLU and Rasa Core.
- Deployed BayMax on Kubernetes for scalability and used MySQL for storing user preferences and chat history.

Technical Skills

Languages: C/C++, HTML/CSS, Python, Java, GoLang, PowerShell, JavaScript
Frameworks: React, Node.js, Flask, Flutter, RASA, Material-UI, TensorFlow, PyTorch, Docker, Kubernetes
Developer Tools: Git, Linux Systems, Docker, Ansible, Zabbix, Google Cloud Platform, AWS, vSphere Client, VS Code
Libraries: D3.js, pandas, NumPy, Matplotlib
Database: MySQL, MongoDB