Naga Sri Hita Veleti

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Education

The Pennsylvania State University - Main Campus   **August 2023 – May 2025**
Master of Science in Computer Science and Engineering - 3.82/4.0   *University Park, Pennsylvania*
Courses: Operating Systems & Design , Distributed Systems , Data Structures & Algorithms, Machine Learning Tools & Techniques , Computer Vision , Vision and Language , Computer Networks.

SASTRA University   **July 2018 – July 2022**
Bachelor of Technology in Computer Science and Engineering - 8.9/10.0   *Thanjavur, India*

Technical Skills

Languages: Python, Java, C, C++, HTML, CSS, JavaScript, TypeScript, SQL, Go.
Developer Tools: VS Code, Eclipse, IntelliJ, Google Cloud Platform, Azure DevOps, Bitbucket, Github, Jenkins.
Technologies/Frameworks: Angular, React, Node JS, Jasmine, Karma, Django, Maven, SpringBoot , Spring Data JPA, Spring Security, JUnit, Git, AWS Services Integration, Terraform(IaC), Pthreads, gRPC, Protocol Buffers.

Experience

Fidelity Investments   *Bangalore, India*
Associate Software Engineer   **August 2022 – July 2023**
- Developed a responsive web-based investment product using **Angular**, **Spring Boot**, and **REST APIs** to simplify investing for users with limited disposable income, resulting an increase in accessibility and engagement opportunities.
- Automated infrastructure management by writing **Terraform** scripts for **AWS S3**, **SNS**, and **SSM** services, deployed via Jenkins, reducing provisioning time by 50%.
- Managed **TLM** (Transaction Lifecycle Management) activities and executed a seamless **Bitbucket** to **GitHub** migration, boosting **version control** efficiency and collaboration across development teams by 35%.
- Contributed to front-end of a project using **Angular**, **Java**, and **Oracle DB** to trace transaction **logs** in a Margin Account, improving log accuracy and traceability by 25%.

Software Engineer Intern   **January 2022 – June 2022**
- Contributed to a fast-paced **Agile** team of **4**, developing a project using **ASP .NET Core**, **HTML**, **CSS**, **Bootstrap**, and **Oracle DB**, improving application efficiency and user experience by 30%.
- Automated manual processes for the security client team at Fidelity, designing and developing the project's UI and front end, which streamlined operations and reduced processing time by 25%.
- Gained expertise in migrating applications from on-premises servers to **Azure** cloud, successfully transferring five applications, which improved scalability and operational efficiency by 40%.

Software Engineer Intern   **May 2021 – June 2021**
- Created automated pipelines for **.NET** and **.NET Core** applications in **Azure DevOps**, increasing deployment speed by 40% and ensuring consistent, reliable delivery of software updates.
- Gained a comprehensive understanding of cloud application deployment, mastering techniques that enhanced deployment efficiency by 30%, resulting in optimized performance and streamlined cloud management.

Projects

Distributed Parallel File System − *C++, gRPC, Protocol Buffers*   **December 2024**
- Built a distributed file system using **gRPC** and **Protocol Buffers** to store and manage data across multiple servers.
- Designed token-based synchronization to ensure sequential consistency for concurrent operations.
- Implemented **LRU** client-side caching to minimize remote data fetches while maintaining data consistency.
- Created metadata management system for file tracking, striping, and token distribution.

Email Classification System | *React, NodeJS, Gmail API, SQL*   **July 2024**
- Developed a web app to categorize Gmail emails into marketing, business and personal using rule-based methods.
- Implemented backend services with **Node JS** to process emails via the **Gmail API** and store results.
- Developed a responsive **React** and **Bootstrap** frontend for categorized email display with real-time search, using reusable components and efficient state management.

E-Learning Platform − *Angular, Spring Boot, Spring Security, AWS S3, SQL*   **May 2024**
- Built a dynamic e-learning platform with **Angular** for reading, uploading, and downloading books.
- Engineered backend services with **Spring Boot** and **AWS S3**, using **presigned URLs** for secure book access.
- Designed a **MySQL** schema for managing user data, book metadata, and transactions efficiently.

Fault-Tolerant Key-Value Store with Paxos − *Go, Paxos, Distributed Systems*   **December 2023**
- Built a **Paxos-based** key-value store ensuring consistency and fault tolerance across distributed replicas.
- Developed **RPC** communication with retry handling, log management, and duplicate detection for reliable operations and recovery.