

Yashwanth Reddy Samala

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EDUCATION

- **San Jose State University** San Jose, CA
Masters in Computer Engineering; GPA: 3.5 January 2022 - Present
- **Jawaharlal Nehru Technological University** Hyderabad, India
Bachelor of Electronics and Communication; GPA: 3.9 (9.59/10.0) Aug 2015 - May 2019

WORK EXPERIENCE

- **Masters Software Engineer** Full-time
Honeywell International, Inc., Atlanta, Georgia (4 months) May 2023 - August 2023
 - Defined core framework and architecture for PYXIS chatbot, using **LangChain** and **OpenAI GPT-4 LLM(Python)**.
 - Connected multiple Honeywell APIs to enable real-time access to critical building data(**C#, .NET, React**).
 - Implemented intelligent recommendations with a potential to cross-sell 75% pre-existing opportunities.
 - Created a simulated Honeywell BMS environment for rigorous testing, automating the process using **pytest**.
- **Software Engineer - II** Full-time
NCR Corporation, Hyderabad, India (1 Year) Feb 2021 - Jan 2022
 - Disintegrated and enhanced Authentic, a **Java-based** stand-alone transaction processing hub into microservices with **Spring Boot, Spring Cloud, Docker and Azure**.
 - Deployed around **15 microservices** (Authentication, Authorisation, Routing, etc) and third-party tools as cloud agnostic **kubernetes** containers, enabling portability, scalability and resource efficiency.
 - Implemented automated cloud resource provisioning and Helm chart deployment, streamlining deployment to a single-click process and reducing manual intervention by 90% (**Terraform, Ansible, Helm and Jenkins CI/CD**).
 - Achieved 0 transaction loss at 10,000 TPS by containerizing a Spring Boot application for scalable TCP connections to external systems. (**Java, Kafka/ RabbitMQ & RESTful web services**).
 - Trained and mentored 10+ new team members on the development process, application details and workflow.
- **Software Engineer - I** Full-time
NCR Corporation, Hyderabad, India (1 Year 8 months) July 2019 - Feb 2021
 - Developed software for Point of Sale and Self-checkout systems with Back-office services such as store setup, management, accounting, and reporting (**Java, Maven, JPA, JDBC, PostgreSQL, React & JUnit**).
 - Feature development for multiple retail customers that total to more than 1000 retail stores across 4 continents.
 - Developed an EFT payment system to simulate POS transactions using **Spring-MVC, MS SQL Server and Swing**, reducing hardware usage (Gateway server and Pin-pad) by 50%.
 - Improved scalable **RESTful APIs** for POS transaction handling delivering 20% reduction in response times.
- **Bachelors Software Engineer** Full-time
NCR Corporation, Hyderabad, India (6 Months) January 2019 - June 2019
 - Automated 60 percent of customized SOWs generation for project managers using an **ASP .NET MVC** web application with **Entity framework and LINQ (C#, C++)**.
 - Created a product recommendation engine with collaborative and content-based data filtering(**Python**).

SKILLS SUMMARY

- **Programming Languages:** Java, Python, C#, C++, C, JavaScript, Typescript.
- **Frameworks:** Spring, NodeJs, React.js, Redux, Express.js, Angular, .Net MVC, API, Forms, OpenAI, GPT-4, Langchain.
- **Web Technologies:** HTML5, CSS, Bootstrap, Flask, jQuery, REST, SPA.
- **Database:** MySQL, MongoDB, MS SQL Server, SQLite, Redis.
- **Cloud Technologies and Tools:** Microsoft Azure, AWS, Docker, Kubernetes, Terraform, Jenkins, Helm, Grafana, Kibana, Prometheus, Elasticsearch, Fluentd, Istio, Ansible, GIT, TortoiseSVN, Github, JIRA, Azure DevOps.

ACADEMIC PROJECTS

- **Stack Overflow Clone** [React, Node.js, MySQL, MongoDB, Kafka, Redis] march 2023 - June 2023
 - Architected End-to-End full-featured Stack Overflow clone app using **MERN** stack. Implemented Custom Authentication Middleware and used **JWT** for Authentication Token Generation.
 - Designed and implemented a dynamic Q&A system with features including tags, answers, badges, and analytics.
 - Harnessed **MongoDB** for storage, and introduced **Kafka** for heightened fault tolerance and system reliability.
- **Image Caption Generator** [Python, Flask, PyTorch, OpenCV, NLTK, Jupyter] August 2022 - October 2022
 - Trained a model that takes image inputs and generates the context of the image in a single sentence.
 - Used **PyTorch** to implement **CNN, Word Embeddings and LSTM** and achieved 75 percent accuracy.
- **E-commerce ETSY clone** [Java, Spring-MVC, Javascript, React] March 2022 - May 2022
 - Orchestrated a resilient, full-stack prototype of an e-commerce platform capable of accommodating 10,000+ users and products, Created using **RESTful** services with **Spring-MVC**.
 - Created a wishlist and cart feature for the buyers and added features like sorting and filtering.
 - Implemented user-specific screens with **React** and also integrated Sandbox PayPal payment API to the webapp.