

# Tejesh Reddy Sigineni

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## EDUCATION

- Arizona State University - Ira A. Fulton Schools of Engineering** Tempe, AZ  
• *Master of Science - Computer Science; GPA: 4.0/4.0* 08/2021 - 05/2023  
*Relevant Courses:* Algorithms, Web Development, Distributed Systems, Blockchain Engineering, Software Security, Cloud Computing
- PES University** Bangalore, India  
• *Bachelor of Technology - Information Science and Engineering; GPA: 3.6/4.0* 06/2015 - 05/2019  
*Relevant Courses:* Data Structures and Algorithms, Computer Networks, Unix and Shell Programming, AI, Design Patterns

## SKILLS SUMMARY

- **Languages:** Python, JavaScript, TypeScript, GoLang, C, Java
- **Web Dev Frameworks:** ReactJS, Spring Boot, NextJS, Flask, Django, NodeJS, JQuery, Handlebars, Express
- **DevOps and Cloud:** AWS, Kubernetes, Jenkins, Docker, GIT, DynamoDB, Terraform, CDK, OpenStack
- **Databases and Tools:** PostgreSQL, MongoDB, Redis, Spark, UiPath, Kafka, Object Store, Spark

## EXPERIENCE

- Hewlett Packard Enterprise (HPE)** Fort Collins, CO  
• *Cloud Software Engineer III* 02/2024 - Present
  - **OnPrem Cloud Applications (Golang, Shell, Python):** Currently developing on-prem cloud applications for the Platforms team, including services such as Certificate Manager, Support Logs, and Health Check Service.
  - **VM Infrastructure (Docker, Kubernetes, Helm):** Deploying containerized applications on VMs to ensure scalability and reliability, using Kubernetes and Helm for efficient orchestration and lifecycle management.
  - **Build Onboarding Framework:** Developed an efficient on-premises build onboarding framework that streamlines package dependency resolution, VM bootstrapping, installation, and upgrade workflows, reducing the overall onboarding cycle time by 90%.
- CVS Health** Dallas, TX  
• *Software Development Engineer - Fullstack* 03/2023 - 02/2024
  - **Claim Processing Platform (Python, React):** Collaborated in the development of a full-stack application designed for the collection of user information and the utilization of RESTful services to streamline business process automations.
  - **RPA Orchestrator (Java, UiPath):** Collaborated with cross-functional teams to develop a UiPath framework that automatically processes patient claims through business pipelines, resulting in a 30% reduction in processing time.
- Unbxid** Bangalore, India  
• *Software Development Engineer - Fullstack* 07/2019 - 08/2021
  - **Platform Integration(React, TypeScript, GraphQL):** Spearheaded the successful integration of customer websites with the Unbxid platform, utilizing a robust tech stack to power seamless and low latency search results.
  - **JS SDK Plugin(Search, AutoSuggest, Rex):** Contributed to Unbxid OSS e-commerce search, typeahead, and React recommendation libraries which improved the sales by over 20% when integrated with customer sites.
  - **Catalog Pipelines (Python):** Developed and deployed AWS EMR data pipelines for efficient catalog indexing and data ingestion, enhancing e-commerce search for 200+ customers and boosting revenue by 40% for leading customers.
  - **Workflow Triggers (Go, Python, Kubernetes, Argo, Docker):** Architected 50+ event-based workflow triggers enabling customers to schedule/invoke chron-enabled pipelines across channels integrated with RESTful Services.
  - **Apache Mesos - Chronos (Docker, Python, Helm):** Implemented a catalog preprocessing system on Apache Mesos' cluster using master-slave architecture and load balancing mechanism, scheduling over 3k data pipelines for indexing jobs, guaranteeing optimal performance and resource optimization.
  - **PyConversion Library:** Developed a Python REST library to facilitate stream and batch multi-format catalog upload, buffering SMTP handler, failure detection and recovery. The current version is published on PyPi as 0.5.0(pyconversion).

## PROJECTS

- **Video Classification Service(Python, AWS, OpenStack):** Architected and developed an auto-scalable video classification service that adheres to CAP theorem principles and provides near real-time results. (May '23)
- **Reddito - React Web Application (NodeJS, ReactJS, MongoDB, NextJS):** Developed Reddito, a comprehensive full stack application using MERN stack to allow users to create accounts, login, and also to enable multi-user real-time updates which is hosted on vercel. (Aug' 23)
- **Sync Sphere - Multiuser File Sharing Service(ReactJS, NextAuth, TypeScript):** Designed and built a versatile full-stack cloud storage solution for seamless file synchronization, backup, and sharing across multiple users.(May' 23)
- **AWS Lex Financial Assistant Chatbot (Python, AWS - Lambda, Lex, DynamoDB):** Built an advanced NLP-based linguistic chatbot that assists end-users and financial institutions to make calculated banking decisions, providing them with insights on several asset classes and market sentiment. (April '22)

## PUBLICATIONS

- **32nd USENIX Security Symposium - Greenhouse:** Published in USENIX Security Symposium at Anaheim, CA '2023 - "Single-Service Rehosting of Linux-Based Firmware Binaries in User-Space Emulation".