

Shashank Kumar Hayyal

+1 352-888-3880 | shashankk.hayyal@ufl.edu | [linkedin.com/in/shashank136](https://www.linkedin.com/in/shashank136) | github.com/shashank136

EDUCATION

University of Florida

Masters of Science in Computer Science

courses: Analysis of Algorithms, Distributed Operating System Principles, Distributed Multimedia Systems

Gainesville, FL

Aug 2021 – Present

Jawaharlal Nehru Technological University

Bachelor of Technology in Computer Science & Engineering

courses: Software Engineering, Database, Algorithms, Data Structures, Operating Systems, Programming languages using Java, Computer Networks

Hyderabad, IND

Aug 2014 – May 2018

EXPERIENCE

Software Development Engineer

Mar 2018 – Jul 2021

OpenText Technologies

Hyderabad, IND

- Worked as a part of document viewer team, build and design web application to render documents.
- Reduced the document rendering time by 75% for zoom operation with no loss in quality.
- Reduced the memory consumption of WebViewer product by fixing the critical memory leak and managing the threads used for rendering.
- Improved the UI of the WebViewer application and reduced the number of clicks by 57% for most used functions like annotations.
- Made the product more modular by abstracting out functionalities and creating microservices.
- Improved the performance of Application by reducing the critical/major bug count by 50%.
- Improved the performance for asynchronous operations by reducing the wait-time for customer by using message queues
- Added REST API to fetch details about the documents from the Archive/Content servers.
- Automated the upgrade of Imaging WebViewer product on Linux platform.
- Implemented auto-save functionality for annotations to improve the user interaction with the system.

Software Engineer - Intern

Dec. 2017 – Mar. 2018

OpenText Technologies

Hyderabad, IND

- Accelerated product testing by automating the tests using VB Scripts.
- Improved the product quality by identifying the critical bugs.

PROJECTS

Peer-to-Peer Decentralized Network | F#, Akka-Actor model Distributed Systems | [github link](#)

- Used functional programming language to implement a P2P network based on Chord.
- Used F#, Akka-Actor model Chord network

Gossip Protocol Implementation | F#, Akka-Actor model, Distributed Systems | [github link](#)

- Implemented Gossip protocol for faster convergence of message in a network.
- Designed and tested on linear, 2d and 3d topologies.
- Used F#, Gossip protocol

Signal Retrieval | Python, Machine Learning | [github link](#)

- Used ICA to decompose a multivariate signal into independent non-Gaussian signals.
- Used numpy, pandas, matplotlib, scikit-learn.
- Used F#, Gossip protocol

TECHNICAL SKILLS

Languages: Java, Python, C/C++, TypeScript, SQL, JavaScript, HTML/CSS, F#

Frameworks: Spring Framework 5, Angular

Developer Tools: Git, Docker, Kubernetes, AWS, Kafka

Libraries: pandas, NumPy, Matplotlib, React

Software development process: Agile, Scrum

Databases: SQL, MySQL, Postgre SQL

Architecture Styles: REST, API, Microservices