Shashank Kumar Hayyal

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EDUCATION

University of Florida (GPA: 4.0)   Aug 2021 – Present
Masters of Science in Computer Science   *Gainesville, FL*
courses: Analysis of Algorithms, Distributed Operating System Principles, Distributed Multimedia Systems, Database System Implementation, Blockchain, Software Engineering

Jawaharlal Nehru Technological University   Aug 2014 – May 2018
Bachelor of Technology in Computer Science & Engineering   *Hyderabad, IND*
courses: Software Engineering, Database, Algorithms, Data Structures, Operating Systems, Programming languages using Java, Computer Networks

TECHNICAL SKILLS

Languages: Java, C++, Python, Javascript, Go, F#, SQL, Perl
Frameworks & Libraries: Spring Framework 5, Reactjs, JQuery
Cloud & Tools: Git, Docker, AWS, Kubernates, Kafka, Agile, Scrum, REST, API, Microservies

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 in **Java Spring & Reactjs** to render documents.
- Implemented **thread pool for multi-threading** to reduce the document rendering time by **75%** for zoom operation with no loss in quality.
- Utilized **JConsole** to reduce the memory consumption of WebViewer product by fixing the critical memory leak and managing the threads used for rendering.
- Improvised **jQuery** based UI of the WebViewer application and reduced the number of clicks by **57%** for most used functions like annotations.
- Refactored the product by creating separate **microservices** on CloudFoundry for different functionalities (like notes & annotations).
- Improved the performance of Application by reducing the critical/major bug count by **50%**.
- Utilized **Apache Kafka & RabbitMQ** to improve the asynchronous operations for reducing the wait-time for the customer.
- Created **REST API** to fetch details about the documents from the Archive/Content servers.
- Wrote **Perl** script to automate the upgrade of Imaging WebViewer product on Linux platform.
- Took complete ownership of writing windows installer using **WiX toolset & C++**.

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

Bitcoin Mining Pool Clone | *F#, Akka-Actor model Distributed Systems* | ⏼
- Used functional programming paradigm to implement a P2P network based on Chord.
- Implemented Akka-Actor model for deploying and communicating between different workers deployed on remote nodes.

Fast Rumor Spreading Algorithm | *F#, Akka-Actor model, Distributed Systems* | ⏼
- Implemented Gossip protocol & Push-sum protocol for faster convergence of message in a network.
- Implemented Akka-Actor model in F# for simulating topologies like linear, 2D, 3D.

Referral board for Jobs | *Go, React, GitHub actions, PostGre SQl, Cypress* | ⏼
- Created **Go** based API using **GORM & Postgres SQl**.
- Developed front-end in **React** based on material design for login, register and CRUD operations.
- Implemented **JWT** based authentication for user validation.
- Automated integration testing using **Cypress.**