**SAI KUMAR VURUKONDA**

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**TECHNICAL EXPERIENCE**

**Application Software Engineer 2, SHURE Incorporated Chicago, IL** Sep 2021 – April 2024

* Led the creation of IntelliMix Room, a game-changing AV conferencing solution, streamlining installations and optimizing audio quality for meeting spaces with innovative software-based processing, significantly impacting user experience and operational efficiency.
* Successfully localized the application in 15 languages, broadening the customer base and increasing **international user acquisition by 35%.**
* Developed and deployed a robust license management system via Revenera within the frontend of a newly built application, leading to a 20% reduction in turnaround time and **a 15% increase in operational efficiency**, driving enhanced productivity and resource optimization.
* With TypeScript and ES6 integrated, the application benefited from enhanced codebase reliability, streamlined development workflows, and improved scalability via static typing, arrow functions, and module imports.
* Engineered high-performance gRPC .NET and C# backend APIs to dynamically generate Protobuf for seamless streaming of download, update/install processes for the latest application version, significantly bolstering connectivity and user experience on the frontend.
* Led the creation of Simple Room Setup connects all the Audio devices which is designed with Angular, Electron, Apollo Client, Graphql.
* Worked with collaborative Scrum-based Agile Methodologies, which provides an accurate time estimate and is more efficient for design implementation, test driven development, writing documentation, production, work on code reviews, retrospective meeting.

**Software Engineer Intern, SHURE Incorporated Chicago, IL** May 2021 – August 2021

* Introduced a new automated Jenkins pipeline, leveraging a custom PowerShell script to streamline processes such as initiating email notifications, updating Jira tickets, executing application builds, rigorous testing, linting, and seamlessly deploying artifacts to Artifactory.
* Crafted extensive unit test cases using Jest, fortifying code quality and functionality, thus ensuring robustness and reliability of the product.

**Software Engineer, NCR Corporation** **Hyderabad, India** Dec 2018 – Jan 2020

* Worked in **Financial Banking and Retail Sector, focusing on secure transactions** of ATM, Kiosks.
* Migration of BIOS Access Utilities from Auto IT into C# to increase security to ATM software, enabling Internal Customers to manage access to BIOS, change passwords, and boot ATM remotely, which **improves the performance by 35%.**
* Developed various Windows desktop APIs and User Experience applications using C#, JavaScript, and ASP.NET.
* Introduced and developed Task Manger application to deploy Intel ME Firmware automatically, which saves **25% of the workforce.**

**Associate Software Engineer, NCR Corporation** **Hyderabad, India** Jul 2018 – Nov 2018

* Designing and developing different application tiers using C#.NET, multi-threading, patterns.
* Research, predictive analytics and executing the Regression Test Cases, manage change requests, bug fixes, and troubleshoot issues.
* Troubleshooting ATM server issues that contains crucial ATM Decryption keys which can impact the customers data, system performance and reporting of vulnerability analysis. Strong focus on JIRA involving custom projects, workflows, fields, dashboards and reports configurations.

**TECHNICAL SKILLS**

**Languages**: C#, JavaScript, Node.js, Auto IT, Bootstrap, HTML5, CSS, PHP, C++, PowerShell

**DevOps**: Docker, Kubernetes, Jenkins, GIT, Apache Kafka, RabbitMQ, Apache JMeter, VMware

**Cloud**: AWS (EC2, S3, RDS, DynamoDB, IAM, VPC), GCP (Basics)

**Other**: Jira, Confluence, Figma, Git, Bitbucket, Crucible, Zephyr, WiX, SonarQube, Coverity, Eclipse, VS Code, Postman, Firebase, Linux

**EDUCATION**

**Chicago State University**, Master of Science (MS) in **Computer Science** | GPA: 3.9 Jan 2020 – Aug 2021

**Jawaharlal Nehru Technological University,** B.Tech in **Electronics and Communication Engineering** | GPA: 3.8 Sep 2014 – April 2018

**PROJECTS**

**PixelGram [React, REDUX, Node, Python, Docker, Jenkins, Kubernetes, RabbitMQ, JMeter, SQLite DB]:** Designed and developed a fault-tolerant distributed systems-based web application focused on high availability and scalability. This application enables users to share, upload, download, and organize photos using the Micro-Services Architectural pattern. I established a CI/CD pipeline with Jenkins to deploy containerized microservices on a Kubernetes cluster hosted on a cloud VM instance through Jetstream. Google Drive was utilized for photo storage, and GIT was effectively leveraged for source code and project management.

**Movie Store [React, Mongo DB, Express, Node, AWS]**: Developed a MERN stack web application showcasing the latest movies and related details, allowing authenticated users to like movies, mark favorites, and post reviews. The application was deployed on an AWS EC2 instance with NGINX serving as the frontend web server and Node.js as the backend server. Movie data was stored in a cloud MongoDB cluster, and AWS S3 was used to store movie posters.

**Home Automation System [UG project]**: Designed and implemented an IoT system for remote control of home appliances. The system utilized Mosquitto MQTT as the messaging broker connecting NodeMCU devices to the cloud. An interactive control dashboard UI was developed with HTML, CSS, WebSockets, Eclipse Paho JS library, and jQuery, and was hosted using Firebase.

**CERTIFICATES**

**Azure Developer Associate, AWS Certified Developer, Certified SAFe 5 Practitioner, AWS Certified Solutions Architect**

**Leadership Qualities**

**STEM Education Facilitator, NCR Corporation** Led the NCR L.I.T.E initiative, focusing on young adult education by teaching STEM concepts and confidence-building to local high school students, culminating in a successful science fair that impressed teachers, parents, and participants, and significantly boosted students' confidence and interest in STEM fields