SMRIDHI BHAT

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Full Stack Application Developer with 2+ years of experience developing scalable web applications and working across the full stack. Proficient with modern JavaScript frameworks and backend development with Spring Boot and NodeJS. Passionate about building user-centric solutions and optimizing performance. Currently located in Basking Ridge, New Jersey but ready to relocate to other states in the United States.

EDUCATION

Master of Science in Computer Science — Aug 2021 – May 2023
University of Florida (GPA:3.7) — *Gainesville, Florida*

TECHNICAL SKILLS

Programming languages: Java, JavaScript, Python, HTML5, CSS3, F#
Databases: MySQL, PostgreSQL, MongoDB
Lib/Frameworks: Spring, Hibernate, JUnit, Mockito, React, Bootstrap, Jest, Cypress, JSON, Node.Js, Akka.net
Tools: Docker, Kubernetes, Jenkins(CI/CD), AWS, Git, VSCode, JIRA, SOAP, RESTful web services, RabbitMQ
Courses: Distributed Operating System Principles, Advanced Data Structures, Analysis of Algorithms, OOPS

WORK EXPERIENCE

Career Soft Solutions | Software Engineer — July 2024 – Present
- Developed complex **SQL** queries and stored procedures to enhance the internal database's performance reducing query execution time by **55%**.

University of Florida | Research Assistant — Aug 2023 – July 2024
- Designed responsive and interactive web pages for the Embodied Intelligence Lab's website that predict emotions based on texts. Utilized ReactJS and CSS for the frontend and **REST APIs** for backend data manipulation.
- Integrated third-party APIs and optimized application performance via client side caching to reduce load time by **40%**.

Honeywell | Software Engineer — Jan 2018 – Aug 2020
- Designed a scalable and robust web application that the stakeholders can use to download navigational and terrain databases from **10K+** organizational documents leveraging React and JavaScript for UI.
- Reduced deployment time by **60%** by implementing AWS **CI/CD** pipelines for Experian Explorer Application using Jenkins.
- Implemented a building portfolio website for Honeywell Forge and used docker containers that extended deployment of buildings performance metrics and shrank **latency** time from **2.0 seconds** to **0.5 milliseconds**.
- Developed customer and admin operations for the portfolio website using React for frontend and Java, SpringBoot, and Hibernate for backend.

ACADEMIC PROJECTS ⌕

Gossip Protocol | *F#, Akka.net, Failure Detection*
- Implemented a decentralized mechanism that supports transporting messages to the nodes in a network with different network topologies like line, full, 2D and 3D. It reduced the fault tolerance of the system by **90%**.

Distributed Hash Table | *F#, Akka.net, Consistent Hashing*
- Implemented Chord Protocol to build a distributed hash table using Action mode. Achieved **~95%** accuracy in node lookups and web requests using **1000+** nodes in distributed systems using **consistent hashing**.

Peer-to-peer file sharing software | *Java Socket Programming, Multithreading*
- Developed a peer-to-peer file sharing application using Java Web Sockets across multiple nodes. Addressed the fairness problem by implementing a choke and unchoke mechanism similar to BitTorrent and minimized network abuse by free riders by **70%**.

Slack Clone | *React.Js, Redux, Firebase*
- Developed a web application with features similar to Slack, allowing users to create channels, send messages through channels and enable sign-in with their existing Google accounts with **Google-auth** using React-Firebase.