

# SMRIDHI BHAT

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Full Stack Application Developer with 2+ years of experience in 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.

## EDUCATION

**Master of Science** in Computer Science  
*University of Florida (GPA: 3.7)*

Aug 2021 – May 2023  
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, GitHub, VSCode, JIRA, SOAP, RESTful webservices  
**Courses:** Distributed Operating System Principles, Advanced Data Structures, Analysis of Algorithms, OOPS

## WORK EXPERIENCE

**University of Florida** | *Research Assistant*

Aug 2023 – Present

- 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 and developed **20+** new modular HMI Web features for Experion eServer with React/Java that lets users access real-time and historical process data from the control room using **Agile** SDLC methodologies.
- Reduced deployment time by **60%** by implementing AWS **CI/CD** pipelines for Experian Explorer Application using Jenkins.
- Improved REST API performance by **76%** by designing performance monitoring services leveraging Grafana K6.
- 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.
- Scrutinized the efficacy by writing test cases with TDD using Jest and Cypress and achieved **80%** test coverage.
- 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 the customer and admin operations for the portfolio website using React, HTML5, CSS3 for frontend and Java, Spring Boot and Hibernate for backend, tested using JUnit and Mockito.
- Expedited the **caching** mechanism for the data obtained from several internal APIs and reduced the downtime of the application by **50%**.

## ACADEMIC PROJECTS 🎓

**Gossip Protocol** | *F#, Akka.net, Failure Detection*

- Analyzed and 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 entire system by **90%**.

**Distributed Hash Table** | *F#, Akka.net, Consistent Hashing*

- Implemented Chord Protocol to build a distributed hash table using Actor Model. 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 across multiple nodes using Java Web Sockets. Addressed the fairness problem by implementing choke and unchoke mechanisms similar to BitTorrent and minimized network abuse by free riders by **70%**.

**Slack Clone** | *React.Js, Redux, Firebase*

- Developed a web application that includes 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.