GAGAN CHATU

• Austin, Texas • (737)-296-0321 • gagan.chatu@proton.me • gaganchatu.com

TECHNOLOGY STACK

- **Backend Development:** Java, Python, Spring Boot, Hibernate, Flask, Next.js
- **Frontend Development:** React.js, HTML, CSS, JavaScript, Tailwind.CSS, Bootstrap.
- **DevOps & Cloud:** Docker, Kubernetes, AWS, OCI, CI/CD (GitHub Actions), Kafka, AWS SQS
- **Observability & Debugging:** Logging (Splunk), Monitoring (Grafana), SonarQube.
- **Certifications**: Oracle Cloud Infrastructure 2024 Certified AI Foundations Associate

PROFESSIONAL EXPERIENCE

Horizon Info Technology Solutions, Alpharetta, GA   Apr 2024 – Present

Role: **Software Developer**

- Developed dynamic report generation functionality using Apache FreeMarker to produce HTML, text, and XML formats and save in AWS S3.
- Implemented comprehensive end-to-end testing using the Karate framework, ensuring robust test coverage and system reliability
- Integrated AWS SQS queues to support asynchronous, event-driven workflows for report generation.
- Upheld code quality with JUnit and SonarQube, achieving 96% code coverage while enforcing rigorous code review practices.
- Contributed to the development of an orchestration microservice for Underwriting application.
- Implemented caching mechanisms to reduce redundant API calls to credit reporting systems for certain scenarios.

Texas State University, San Marcos, TX   Jun 2022 – Dec 2023

Role: **Graduate Research/Instructional Assistant**

- Collaborated with Dr. Tamir on a research project investigating the implementation of blockchain technology in shipping license management.
- Implemented a network simulation using the Ethereum blockchain, collecting data on key performance indicators (KPIs) such as transaction throughput, gas usage.
- Demonstrated expertise as an instructor for CS1428 labs, guiding over 180 students through hands-on problem-solving exercises to reinforce conceptual understanding.
- Provided code debugging support to foster problem-solving skills and promote proficiency in programming.

Persistent System Limited, Pune, India   Jan 2019 – Dec 2021

Role: **Software Developer**

- Engineered a bespoke in-house RESTful web application for Clinical Trail Data Management team using React for frontend and spring for backend.
- Designed and implemented a secure authentication and authorization system using OAuth 2.0 and JSON Web Tokens (JWT) to ensure secure access to the application and its data.
- Integrated Apache Kafka in the Clinical Trail tool, enabling real-time data streaming and enhancing inter-service communication.
- Implemented indexing in MySQL to optimize query performance and enhance overall system responsiveness.
- Performed in-depth data analysis and generated KPIs such as Data discrepancies count by status, Pending response from external users.

EDUCATION

Masters in Computer Science, Texas State University, San Marcos, TX   Jan 2022 – Dec 2023

  Coursework: Human Computer Interaction, Distributed Ledger Systems, Principle of Programming

Bachelors in Computer Science and Engineering, Chandigarh University   Jun 2015 – Jun 2019

  Coursework: Big Data Analysis, Software Engineering, Operating Systems