Rahul Chauhan

rahuljungchauhan@gmail.com | 682-970-5890 | [Linkedin](#) | [Github](#)

EDUCATION

Georgia State University — Atlanta, GA
MS in Computer Information Systems — Aug 2024 - Jul 2025

University of Houston — Houston, TX
BS in Computer Science, Minor in Mathematics — May 2021
  Awards: President's Honor Roll, Deans List, Transfer Excellence Scholarship 2018 - 2021

Hack Reactor — Austin, TX
Software Engineering Immersive Program — Jun 2020 – Sept 2020

TECHNICAL SKILLS

Programming & Frameworks: Java, Python, JavaScript, Spring, React, Node.js, HTML, CSS, Bash/Linux, PowerShell

Tools & Platforms:: AWS (EC2), Docker, MySQL, MongoDB, PostgreSQL, Git, Jira, SQL Server, Tomcat, Eclipse, VS Code, IntelliJ, Bitbucket, GitHub

PROFESSIONAL EXPERIENCE

Software Developer II — Mar 2024 – Jun 2024
InductiveHealth Informatics (Centers for Disease Control and Prevention - CDC) — *Atlanta, GA*

- Built and maintained scalable REST APIs for a Java web application managing user data access to the CDC's National Syndromic Surveillance Data, with a focus on data integrity and performance optimization
- Implemented multi-factor authentication using Java Spring Security to enhance the security measures of the web application, integrating additional layers of user verification
- Designed and developed dynamic UI components with JavaScript/jQuery, HTML, CSS, and Java Spring, resulting in a 60% reduction in application load time and an improved user experience
- Automated notification(mail) services utilizing Linux mail server(Sendmail) to improve operations and application reliability
- Conducted regular code reviews, participated in interview panels to hire new resources, and mentored junior developers, contributing to enhanced code quality and adherence to coding standards

Software Developer — Sept 2021 – Mar 2024
InductiveHealth Informatics (Centers for Disease Control and Prevention - CDC) — *Atlanta, GA*

- Developed and maintained Java-based ETL application to process COVID-19 lab reports across United States health departments, handling over 1 million records daily
- Spearheaded the data centralization initiative by designing and implementing solutions to aggregate COVID-19 lab data from over 20 state health departments into MySQL databases, leveraging SQL and Java for efficient data integration and management
- Designed database schema and implemented custom SQL stored procedure for clinical lab data, optimizing the processing time from 4 minutes to less than 15 seconds for over 1 million records
- Co-organized bi-weekly company-wide developer meetings, and documented best practices within the organization

Software Engineer Intern — Jul 2021 – Sept 2021
LivestockCity, Inc — *Mount Solon, VA*

- Migrated the front-end codebase from HTML, JavaScript and jQuery to React.js; redesigned and developed dynamic front end components improving the user engagement by 20%
- Participated in the development of application architecture and blueprints to define application components, platform, interfaces, and development tools

Academic Experience

Graduate Research Assistant
Georgia State University

Aug 2024 – Present

Atlanta, GA

- Lead the transition of a monolithic application to a microservices architecture using Python, FastAPI, and Docker, enhancing scalability and maintainability.
- Develop and optimize APIs for data analysis tasks, reducing processing time by 30% and enhancing system performance through efficient service-to-service data exchange.

Math Tutor
East Central University

Jan 2018 – May, 2018

Ada, OK

- Tutored class of 55 students in pre-Calculus, Advanced Calculus, Trigonometry, and Algebra
- Developed online training material, which improved class performance by 35% in the final exam

Student Ambassador
University of Houston

Jan 2020 – May 2021

Houston, TX

- Facilitated brainstorming, Q&A sessions regarding student finance and life, and college services
- Assisted prospective students with initial inquiries and peer advising about academics

Technical Projects

Frontend Engineer, Retail Chain | *React, Node.js, Express.js, MySQL, AWS, GitFlow*   Github

- Led a group of 4 software engineers to implement item detail page for an E-commerce web application with focus on design and functionality
- Designed and built Guest Ratings and Reviews Microservice utilizing React on the front end to dynamically render 100s of products and their reviews
- Leveraged MySQL database to store customer's reviews/ratings, served the microservice using Node.js RESTful API on the backend
- Implemented scalable, service-oriented architecture by deploying the microservice to AWS EC2 instance

Full Stack Engineer, Yummy | *React, MySQL, Node.js, Google Map API, AWS*   Github

- Build and deployed Yelp-inspired single-page application to search for local restaurants, bars and cafes
- Integrated Google Maps API with geolocation-based searching to display listings on map
- Incorporated React and React Hooks to architect highly scalable front-end state management that enabled access to customer reviews and listing information

LEADERSHIP ROLES/INTEREST

Organizer For Developer Mindshare Meetings at InductiveHealth Informatics Inc. : Led and organized company-wide bi-weekly developers mindshare meetings which provided a platform for developers to share their knowledge, experience and demo their work with colleagues.

Fund-Raising Chair-ECU Rotaract Club: Organized and volunteered for multiple fundraising events across Ada, Oklahoma through the Rotaract Club with a mission to raise awareness about the importance of eradicating polio worldwide (World Polio Day 2017)