

Sai Akshitha Reddy Kota

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EDUCATION

University of Georgia at Athens, School of Computing

Aug 2023-May 2025

Master of Science, Computer Science

Major GPA:3.7/4.00

Certification: AWS, Associate Solutions Architect

Nov 2024

Certification: AWS, Associate developer

Jan 2025

TECHNICAL SKILLS

Programming Languages: Python, Java, C++, C,SQL

Web and Core: HTML5, CSS3, JSP, JavaScript (ES6+) ,Data Structures and Algorithms, Machine learning

Databases: MySQL, PostgreSQL, MongoDB, Kafka ,RabbitMQ,Redis

Frameworks: Spring Boot, ReactJS,NodeJS Flask, Bootstrap

Cloud: AWS (lambda, Glue, ETL, S3, RDS) Docker, Kubernetes, API Management (RESTful APIs, OAuth 2.0)

Tools &Applications: Git, Jira, Postman,Linux

EXPERIENCE

HexStream

Westborough, MA

Software developer intern

Jan 2025 – present

- Optimized queries to improve database performance by 40%

University of Georgia

Athens, GA

Graduate Research assistant

Aug 2023 –Dec 2024

- Developed custom research software solutions using Python and JavaScript to automate repetitive tasks, streamline workflows, and improve data handling efficiency.
- Designed and integrated RESTful APIs to enable seamless communication between research tools and external data sources, supporting real-time data synchronization and access.
- Designed and managed relational databases (e.g., MySQL, PostgreSQL) to store and query large research datasets, optimizing schema design for fast data retrieval.
- Built interactive web applications using React.js and Flask for visualizing research data.

Infosys

Software Developer

Jan 2023 – June 2023

- API Integration:** Integrated RESTful APIs with front-end applications, ensuring efficient data exchange and reducing latency. Designed modular services to improve code maintainability and scalability.
- Authentication & Security:** Implemented OAuth 2.0 and JWT for secure authentication workflows, ensuring data integrity and user privacy.
- Backend Collaboration:** Worked closely with backend teams to develop and test APIs, identifying and resolving bottlenecks to enhance overall system functionality.
- Testing & Debugging:** Conducted end-to-end testing using Cypress to ensure feature reliability and seamless user experiences.
- Database Interaction:** Worked with relational databases (PostgreSQL, MySQL) and NoSQL databases (MongoDB), optimizing queries and data structures for performance.

PROJECTS

Cinequest | AngularJS, Spring Boot, Java, and SQL

- Developed an e-cinema booking system with admin panel for site management and UX design for booking and browsing movies and Integrated core functionalities such as seat selection, booking confirmation, and payment.

Video Chat Application| ReactJS, Node.JS, WebRTC

- Engineered an innovative video chat application utilizing React and WebRTC, enabling seamless peer-to-peer communication for over 200 users in real-time sessions without latency issues and deployed with docker

Twitter Sentiment Analysis| ML, NLP, Deep Learning

- Created a Natural Language Processing (NLP) pipeline to classify tweets as positive or negative using machine learning algorithms like logistic Regression, Naive Bayes, SVM, KNN, and Random Forest.

Publication

“Enhancing Consistency and Efficiency of tracking multiple individual broilers in group settings”- **CEA Journal**

Clubs

Women in technology team lead | University of Georgia, Athens

Team Srijan Management lead | Birla Institute of Technology, India