

Ananya Rao

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EDUCATION

Rice University, Houston TX

May 2026

BA in **Computer Science** and Minor in **Data Science**

Relevant coursework: Concurrent Programming, Computer Systems, ML Concepts, Java Program Design, Algorithmic Thinking

WORK EXPERIENCE

Software Engineering Intern - **J.P. Morgan Chase**

June 2024 - August 2024

- Designed and developed a UI with an AWS Lambda backend that allows users to clear Kafka consumer lag on a given topic and download message files directly from S3 via API Gateway; deployed via Terraform and thoroughly tested with JUnit test cases
- Engineered an AWS Lambda function for querying millions of encrypted Datadog logs using regex rules to encrypt data strings to facilitate secure log searches to solve a time sensitive production support issue; integrated tool into the exceptions dashboard
- Successfully pushed my code changes to production and oversaw release, which included gathering comprehensive dev and test environment evidence, creating a detailed production release plan, and collaborated with the team during the release process

Webmaster - **Jones Residential College** at Rice University

December 2023 - Present

- Improved user experience and accessibility by creating a real-time room reservation system with Google Calendar API integration
- Leveraging React to redesign page layouts, creating a cohesive and visually engaging interface that aligns with students' needs

Student Computing Consultant - **Rice University Office of Information Technology**

August 2023 - Present

- Provide technical support to over 7,000 students and staff, diagnosing and resolving a diverse range of technology-related issues

Lead Instructor - **iCode Coding Camp** Houston, TX

May 2023 - Aug 2023

- Delivered comprehensive curriculum to over 100 students, leading courses on TinkerCAD for 3D design and web development

Undergraduate Research Assistant - **Rice University Computer Science Department**

December 2022 - August 2023

- Developed deep learning model to detect COVID-19 lesions in pediatric chest x-rays by labelling visual data input with bounding boxes and constructing prototype neural networks in collaboration with Texas Children's Hospital

LEADERSHIP

Tracks & Workshops Director (2024), PR & Registration Director (2023) - **HackRice**

April 2023 - Present

- Designed and led specialized tracks and workshops for over 400 participants, covering topics such as AI, AWS, and Game Development. Directed student outreach efforts across social media, managed event theme selection, and streamlined the registration process to reach a record for the highest number of HackRice project submissions.

Co-President (2024) & Sponsorship Coordinator (2023) - **Rice Cycling & Triathlon Club**

Jan 2023 - Present

- Increased club engagement by launching additional weekly workouts, secured sponsorships and donations from local businesses, initiating collaborations with local run clubs, and organizing race events for members of all skill levels

PROJECTS

- OwlDB:** engineered a high-performance, concurrent RESTful web service in GoLang, enabling secure JSON document storage with scalable data management, real-time client updates, and robust access control via Bearer tokens
- Smart Transform:** secure, no-code solution for fast data transformation with LLM-driven prompts (JPMC Innovation Week)
 - Oversaw frontend development using React.js to create user-friendly chatbot interface and real-time data visualizations
- Eq-witty:** web-app created for All Star Code to support young men of color in their tech career journeys (Code for Good JPMC)
 - Led implementation of dynamic timeline with a progress bar using React.js and seamless user authentication via Firebase

SKILLS

Programming Python • Java • JavaScript • React • C • GoLang **Web & Database** MongoDB • Node.js • MySQL • GraphQL

Tech Terraform • Git • Kafka • Axios • Spinnaker **Language** English • Spanish • Hindi

Certifications: AWS Cloud Practitioner, ISC2 Certified in Cybersecurity, National Registry of Emergency Medical Technicians, CPR

Women in Cybersecurity Student Scholarship Attendee (2024), Grace Hopper Celebration Scholar (2024)