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, Machine Learning, Java Program Design, Algorithmic Thinking

WORK EXPERIENCE

***Software Engineering Intern* - J.P. Morgan Chase AWM** • Plano, TX
June 2025 - August 2025

- Developing a full-stack web app using React and Spring Boot to monitor the real-time health status of AWM applications

***Software Engineering Intern* - J.P. Morgan Chase CIB** • Houston, TX
June 2024 - August 2024

- Developed and deployed a full-stack Kafka application to manage concurrent trade queues using AWS Lambda, API Gateway, and Terraform; improved operational efficiency for internal production support teams by 70%
- Built a secure log-searching Lambda function that processes millions of encrypted Datadog logs via custom regex-based transformations; integrated into production dashboard to resolve a time-sensitive and critical internal issue
- Delivered end-to-end production release including comprehensive JUnit tests with over 80% code coverage, detailed production release documentation with test evidence, and collaborated with the release team

***Webmaster* - Jones Residential College** at Rice University
December 2023 - Present

- Designed and developed a real-time room reservation feature, integrated with the community calendar; supporting simultaneous updates by multiple users; migrated website to a more modern UI with a React-based architecture

***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 hardware, software, and networking issues

***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 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 new 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

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
- ***Eq-witty:*** web-app created for All Star Code to support young men of color in their tech career journeys using React.js and seamless authentication via Firebase (Code for Good JPMC)
- ***NourishUS***: mobile app to help students and staff find and filter food options on campus based on their dietary needs
  - Conducted user research, created wireframes, iterated on designs through testing, and delivered a Figma prototype

SKILLS

Programming	Python • Java • Spring Boot • React • GoLang • C	**Web & Database**	MongoDB • Node.js • PostgreSQL
Tech	Terraform • Git • Kafka • Axios • Spinnaker	**Languages**	English • Spanish • Hindi

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

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