

## EXPERIENCE

- Rural Studies Institute, GCSU (Sponsored by Georgia Tech PIN Program)** Milledgeville, GA  
*Front-End Developer & Data Visualization Intern* May 2025 – Aug 2025
- Designed and deployed interactive, data-driven maps for the Black Belt Regional Database using **JavaScript**, **Leaflet.js**, and **WordPress**.
  - Automated data pipelines converting spreadsheets to **GeoJSON**, reducing integration time by **30%**.
  - Collaborated with researchers and policymakers to launch a public-facing platform serving **500+** monthly users.
  - Presented solutions at the *Emerging Innovators Celebration*, enhancing project visibility.
  - Project Link:** gcsu.edu/ruralstudies/understanding-black-belt-region.

## PROJECTS

- Timeline Animation Tool | React.js, Fabric.js, Recoil** [Github](#) | [Demo](#)
- Architected animation engine with custom interpolation algorithms and easing functions for smooth keyframe animations
  - Implemented atomic state management using **Recoil**, optimizing canvas rendering with atoms, selectors and custom hooks.
  - Built drag-and-drop timeline UI with GSAP-powered live preview and code export system generating production-ready **HTML/CSS/JavaScript**. Deployed on Vercel.
- Real-Time Collaborative Task Board | React, Node.js, Socket.io, MongoDB** [GitHub](#) | [Demo](#)
- Built real-time collaboration system using **WebSockets**, enabling instant task updates across 50+ concurrent users with **<100ms latency**.
  - Designed **RESTful API** with **JWT** authentication, **Zod** validation, **Bcrypt** password hashing, and role-based access control
  - Implemented drag-and-drop interface with optimistic UI updates, error handling, and automatic reconnection logic
  - Deployed on **Vercel** (frontend) and **Render** (backend) with automated CI/CD and health monitoring.

## TECHNICAL SKILLS

- Languages:** JavaScript/TypeScript, HTML/CSS, SQL, Python
- Frontend:** React.js, Next.js, Tailwind CSS, Fabric.js, React Beautiful DnD, Recoil, Zustand
- Backend:** Node.js, Express.js, RESTful APIs, Microservices, WebSockets, Socket.io
- Databases:** MongoDB, PostgreSQL, Prisma
- Testing & Quality:** Jest, React Testing Library, Unit Testing, Integration Testing, Test-Driven Development(TDD)
- Cloud & DevOps:** AWS (EC2, S3, Lambda, RDS), Docker, Linux, CI/CD (GitHub Actions), Vercel, Render
- Developer Tools:** Git, Swagger/OpenAPI, Postman, Google Maps API, UML ,Bash, Zod, Bcrypt
- Soft Skills:** Agile/Scrum, Code Reviews, Technical Documentation, Cross-functional Collaboration

## CERTIFICATIONS

- AWS Certified Developer - Associate
- AWS Certified Cloud Practitioner

## EDUCATION

- The University of Georgia** Athens, GA  
*Master of Science in Computer Science* Expected May 2026
- Coursework: Software Engineering, Database Management, Algorithms, Computer Networks, Data Science, Advanced Representation Learning
- Sathyabama Institute of Science and Technology** Chennai, India  
*Bachelor of Engineering in Computer Science* Jun 2024