

EXPERIENCE

Rural Studies Institute, GCSU (Sponsored by Georgia Tech PIN Program) <i>Front-End Developer & Data Visualization Intern</i>	Milledgeville, GA May 2025 – Aug 2025
<ul style="list-style-type: none">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 <i>Emerging Innovators Celebration</i>, enhancing project visibility.Project Link: gcsu.edu/ruralstudies/understanding-black-belt-region.	

PROJECTS

Timeline Animation Tool <i>React.js, Fabric.js, Recoil</i>	Github Demo
<ul style="list-style-type: none">Architected animation engine with custom interpolation algorithms and easing functions for smooth keyframe animationsImplemented 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 <i>React, Node.js, Socket.io, MongoDB</i>	GitHub Demo
<ul style="list-style-type: none">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 controlImplemented drag-and-drop interface with optimistic UI updates, error handling, and automatic reconnection logicDeployed 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 <i>Master of Science in Computer Science</i>	Athens, GA Expected May 2026
<ul style="list-style-type: none">Coursework: Software Engineering, Database Management, Algorithms, Computer Networks, Data Science, Advanced Representation Learning	
Sathyabama Institute of Science and Technology <i>Bachelor of Engineering in Computer Science</i>	

Chennai, India
Jun 2024