Ganapathi Raman Deivanayagam

linkedin.com/in/ganapathi-raman

Email: ganapathiramanaz1@gmail.com
Mobile: +1 770-688-4138

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.
- Presented solutions at the *Emerging Innovators Celebration*, enhancing project visibility.

Meghana IT Services LLP — Chennai, India
Full Stack Engineer Intern — *May 2023 – Jul 2023*

- Led a 3-member team to streamline workflows, cutting project turnaround time by **20%**.
- Developed full-stack features using **React.js, Node.js, and PostgreSQL** in an agile environment.
- Coordinated client deliverables and budgets, ensuring **100% on-time completion**.

PROJECTS

Timeline Animation Tool | *React.js, Fabric.js, Recoil*

- Architected a high-performance animation engine using **React.js** and **Fabric.js** with custom interpolation algorithms for smooth keyframe tweening.
- Implemented **Recoil** for atomic state management to decouple timeline logic from canvas rendering, minimizing re-renders and optimizing playback.

Scalable URL Shortener | *Node.js, Redis, PostgreSQL, Docker, AWS*

- Designed a high-availability service using **Node.js** and **Redis** write-through caching, achieving sub-10ms latency for high-concurrency traffic.
- Deployed containerized applications on **AWS EC2** using **Docker** and **Nginx** for load balancing and rate limiting to ensure stability.
- Built a **PostgreSQL** analytics pipeline to track and store click-through rates and geographical user data for real-time reporting.

TECHNICAL SKILLS

- **Languages:** Python, JavaScript/TypeScript, SQL, HTML/CSS
- **Frameworks:** React.js, Node.js, Express.js, Next.js, Tailwind CSS
- **Databases:** MongoDB, PostgreSQL, Prisma, Redis
- **Cloud & DevOps:** AWS Services, Docker, Kubernetes, Nginx, Linux
- **API Services:** REST APIs, gRPC, GraphQL, Swagger/OpenAPI, Google Maps API
- **Tools & Libraries:** Git, Recoil, Zustand, Bash
- **Other:** Agile/Scrum, GitHub CI/CD, System Design, UML, Trello, Data Cleaning

CERTIFICATIONS

- AWS Certified Cloud Practitioner
- Postman API Fundamentals – Student Expert

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, Advanced Special Topics in CS

Sathyabama Institute of Science and Technology — Chennai, India
Bachelor of Engineering in Computer Science (Jun 2024)