Naganathan M R

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EDUCATION

Amrita Vishwa Vidyapeetham	Sep 2022 - Sep 2026
Bachelor of Technology, Computer Science and Engineering	*CGPA: 8.99/10*
Indian Institute of Technology, Madras	May 2023 – June 2027
Bachelor of Science, Data Science and Programming	*CGPA: 8.5/10*

PROJECTS

CodeMover ↗ | *NodeJS, AWS DynamoDB, GitHub API, HTML5, CSS3, Javascript*   ⭘

- **Development and Deployment:** Created a Node.js application integrated with **GitHub API**, enabling over **10+ active users** to seamlessly automate DSA code uploads with detailed metadata annotations. Reduced manual effort by **100%.**
- **Security and Performance:** Implemented **JWT Token-Based Authentication** for secure access, optimized server latency and achieved an average response time of **293 ms**.

Molecule Visualizer ↗ | *ReactJS, NodeJS, Google Bard API, Material UI*   ⭘

- **3D Molecular Visualization:** Created a React.js web application for molecular visualization, supporting detailed 3D rendering for **100+** molecular models with precise bond and angle calculations.
- **Real-Time Interaction:** Initiated interactive features to visualize and manipulate up to **20** atoms and bonds in real-time, enabling detailed analysis of complex molecular structures.
- **Data Integration and Optimization:** Integrated **Google Bard API** to streamline external data fetching, eliminating **100%** local data storage needs.

Ansan ↗ | *S3 Bucket, AWS API Gateway, Lambda Function, Javascript, Terraform*   ⭘

- **Secure Storage Solution:** Designed and developed a storage model using AWS services enabling efficient handling of large-scale and secure image uploads.
- **Enhanced Security:** Implemented **JWT Token** verification for incoming API requests, strengthening data access controls and ensuring the integrity of images stored.
- **Server Latency Optimization:** Integrated **AWS CloudFront** to optimize server performance, achieving a **20%** reduction in latency

TECHNICAL SKILLS

Languages: C, C++, Python, Java.
Database and Web Development: HTML, CSS, Javascript, React.js, Next.js, TailwindCSS, Node.js, Express.js, MySQL, SQLite, PostgreSQL, AWS DynamoDB.
Cloud and Version Control Tools: AWS EC2, AWS S3, AWS API Gateway, AWS Lambda, Terraform, Git, Linux, Visual Studio.

CERTIFICATES/EXTRA-CURRICULAR

Anokha Techfest	Sep 2024 – Present
Implementation Team Head	

→ **Leetcode Contest Rating: 1750+** | Solved **500+** *DSA* Problems | View Profile
→ *Coursera:* Introduction to Cloud Computing | View Certificate