Nithin Raghava Aitha (he/him/his)

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EDUCATION

The George Washington University (GWU), GPA - 3.74/4   Aug 2023 – May 2025
Master's degree in Computer Science, *SEAS Dean's Scholarship Award*   Washington, DC
- **Coursework:** Data Structures and Algorithm Design, Cloud Computing, Database Management Systems, Object-Oriented Design, Software Engineering, Software Engineering, Computer Architecture, Big Data & Analytics, Machine Learning.

BV Raju Institute of Technology (BVRIT) , CGPA - 8.1/10   Aug 2019 – May 2023
Bachelor's degree in Computer Science Engineering   Hyderabad, India
- **Coursework:** Formal Languages and Automata Theory, Web Technologies, Computer Networks, Design Patterns.

TECHNICAL SKILLS

Languages: Python, C#, Java, C++, C JavaScript, HTML, CSS, SQL, R
Frameworks: jQuery, EJS, ReactJS, NodeJS, ExpressJS, Django, ASP.NET, Bootstrap, Tailwind
Databases: Oracle Database, MySQL, MongoDB, PostgreSQL | **Operating Systems:** macOS, Linux, Windows
Tools and Technologies: AWS(EC2, IAM, S3, VPC), PyCharm, Redis, Git, GitHub, Postman, Chrome Dev Tools, npm, Swagger, Docker, Jira, FreshDesk, Slack, Visual Studio, Eclipse, IntelliJ

WORK EXPERIENCE

Software Specialist (Technical Support) | GWU Law Library, GWU, DC   July 2024 – May 2025
- Improved overall database query performance by 40% through effective use of indexing and Redis caching techniques.
- Assisted in Agile sprint tasks, streamlining deployment with GitHub Actions and Docker, cutting deployment failures by 50%.
- Enhanced UI responsiveness and engagement by approximately 50% using React, Redux, and optimized frontend practices.
- Supported backend services built with Node.js and PostgreSQL, increasing API efficiency and scalability by around 30%.
- Helped manage and deploy AWS (EC2, S3, IAM, RDS) infrastructure, improving system reliability by over 25%.

Full Stack Developer Intern | Technovert Solutions, India   Aug 2022 – Mar 2023
- Built dynamic UI with React.js and optimized API performance in Node.js and .NET, improving backend throughput by 50%.
- Developed RESTful APIs with Express.js and unit tests, reducing post deployment bugs by 40% and ensuring 99% reliability.
- Streamlined CI/CD pipelines and Agile sprints, reducing deployment issues by 60% and improving delivery speed by 30%.
- Assisted with testing, debugging, and deployment of web applications, ensuring optimal performance, security, and reliability.

Curriculum Developer Intern | Deep Thought EduTech Ventures, India   Sep 2020 – Jan 2022
- Helped +1 and +2 students learn HTML, CSS, Python, and C, ensuring clarity in core concepts through practical examples.
- Created structured lesson plans and hands-on exercises to boost student engagement and enhance learning outcomes.
- Assisted with troubleshooting, debugging, and mentoring to improve problem-solving skills and code efficiency.

PROJECTS

Write Up | JavaScript, node.js, express.js, MongoDB
- Created WriteUp, a dynamic blog website enabling users to write, edit, view, and delete posts with seamless integration, featuring a well-structured backend, an intuitive user interface, and real-time updates for an enhanced blogging experience.
- Built a modular blog platform with Node.js, Express.js, and EJS, applied MVC patterns for clean backend design.
- Implemented a MongoDB database for efficient blog content storage and retrieval, enhancing performance and scalability.

Lost/Found | JavaScript, react.js, node.js, express.js, PostgreSQL
- Implemented Lost/Found, a web application enabling students to report and recover lost items within the institute, providing a seamless, secure, and responsive user experience with real-time updates, efficient item tracking, and email notifications.
- Built using JavaScript, React.js, Node.js, Express.js, PostgreSQL, HTML, CSS, and Bootstrap, ensuring secure access via college ID registration and providing a reliable, user-friendly platform for managing lost and found items.
- Designed two main sections: Lost and Found, allowing students to report found items and check the database for matches, facilitating email-based coordination for item returns and ensuring a streamlined, efficient recovery process.

Task Tracker | Angular, ASP.NET Core, Postgre SQL, Entity Framework
- Developed a responsive task management application using Angular 16+ and TypeScript for the frontend, integrated with an ASP.NET Core Web API backend utilizing Singleton and Repository patterns for structured data handling and maintainability.
- Engineered backend services with Entity Framework Core and PostgreSQL, implementing robust RESTful APIs to handle CRUD operations efficiently, enhancing database performance and ensuring reliable data persistence.
- Built an intuitive, dynamic user interface providing real-time task management capabilities and seamless interaction, ensuring enhanced usability, optimal user experience, and responsive design across multiple devices.