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, TypeScript, HTML5, CSS3, SQL, R
Frameworks: jQuery, EJS, React.js, Node.js, Express.js, Django, SpringBoot, .NET, Bootstrap, Tailwind
Databases: MySQL, NoSQL, Oracle Database, PostgreSQL, Redis | **Operating Systems:** macOS, Linux, Windows
Tools and Technologies: AWS services(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 Engineer (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%.
- Boosted React/Redux UI performance by 50% and automated stable deployments via GitHub Actions for faster release cycles.
- Integrated and optimized PostgreSQL with Node.js services to enhance scalability, structure, and query performance by 30%.
- Automated Docker, CI/CD pipelines to improve deployments and increased API stability with PostgreSQL and Node services.

Full Stack Developer Intern | Technovert Solutions, India   Aug 2022 – Mar 2023
- Built React/.NET features and modular APIs, boosting UI speed by 45% while collaborating across full development cycles.
- 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%.
- Wrote unit-tested features within sprint cycles and coordinated closely with QA, ensuring stable builds and timely delivery.

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, PostgreSQL
- Created a modular blog application using Node.js, EJS views, and MongoDB, implementing RESTful routing, responsive UI design, and secure session handling to ensure consistent user experience and functional accessibility across devices.
- Built a modular blog platform with Node.js, Express.js, and EJS, applied MVC patterns for clean backend design.
- Implemented a PostgreSQL database for efficient blog content storage and retrieval, enhancing performance and scalability.

Lost/Found | JavaScript, react.js, node.js, express.js, PostgreSQL
- Developed a React-based web app with PostgreSQL backend for campus users; implemented secure user authentication, admin dashboard features, and dynamic tables with real-time filtering for efficient item tracking and retrieval workflows.
- 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.
- Designed scalable task UI with Angular and .NET backend, aligning state logic with real-time interaction for smoother UX.
- 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.
- Created Angular-based UI with responsive panels and Redux-like state logic to mirror real-time task feedback loops.