DEEPALI NAGWADE

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EDUCATION

Stevens Institute of Technology   **Hoboken, NJ**
Master of Science (MS), Computer Science, GPA: 3.8   May 2024
Relevant Coursework: Web Programming, Database management systems, Agile Methods for Software Development, Software Requirements and Analysis, Advance Algorithms, Knowledge Discovery and Data Mining, Introduction to SAS

Shri GS Institute of Technology and Science   **Indore, India**
Bachelor of Engineering (B.E.), Computer Science and Engineering   May 2018
Relevant Coursework: Data Structures, Algorithms, System Programming, Operating Systems, Object-Oriented Software Engineering

TECHNICAL SKILLS AND CERTIFICATIONS

Programming Languages: Java, Python, JavaScript, C, C++, R, Groovy, Typescript, Shell
Web Technologies: RESTful APIs, JSON, Web Sockets, MVC, JWT, User interface, User Experience, OAuth, SEO, Microservices
Back-End Technologies: Node.js, Spring boot, Express.js, Hibernate ORM, JDBC, GraphQL, J2EE
Front-End Technologies: HTML5, CSS3, ReactJS, SaaS, Bootstrap, AJAX, JQuery, Redux, Next.js, Tailwind CSS, Material UI
Databases: MySQL, PostgreSQL, MongoDB, Firebase, Oracle, SQL Server, Redis, Cassandra
Tools and Technologies: AWS, Azure, Docker, Kubernetes, Jenkins, CI/CD, Jira, Git, Excel, Agile, Linux, Unix, Bitbucket, VS Code
Certifications: Algorithm Toolbox by UC San Diego (**Coursera**), Software Design Patterns by University of Alberta (**Coursera**)

SOFTWARE DEVELOPMENT EXPERIENCE

Graduate Student Assistant, Stevens Institute of Technology | Hoboken, NJ   November 2022 - Present
- Working on developing and integrating new features using React.js and creating web pages for courses offered by various schools
- Delivered critical assistance in the formulation of communication strategies such as the automation of emails
- Worked on preparing SQL queries for target audiences and regularly updating the website for the fresh content from the departments

Software Developer, Anuta Networks | Bengaluru, India   July 2021 - July 2022
- Designed microservice-based backend using Node.js to serve RESTful APIs for user account management
- Tasked with gathering requirements, presenting architecture solutions, planning and delivery of product workflow, and code review
- Designed and developed a React-based Information asset dashboard, empowering users to effectively manage, sort, and categorize devices for seamless configuration with the product. Implemented an end-to-end microservice for user profile verification
- Deployed with a CI/CD pipeline using Docker, Jenkins, and Kubernetes and tasked with the implementation of Python and Shell scripts for automation of redundant maintenance duties to save time by 57.8 percent

Senior Systems Engineer, Infosys Ltd. | Bengaluru, India   June 2018 - July 2021
- Responsible for designing and delivering a high-quality distributed system for various microservices with a team of 6 people
- Revamped a major reporting module by updating the backend of the application built with Java J2EE and designing and developing frontend components using Angular. Provided SEO solutions to single-page web application (SPA)
- Coordinated all aspects of the software development lifecycle, building, and testing code, and performed quality assurance testing
- Worked on payment module to re-architecture and migrate a monolith module to microservices using Java Spring Boot framework along with JDBC, hibernate and integrated Restful APIs, external web services ensuring high performance on mobile and desktop
- Lowered response times by 40 percent by building dashboards for tracking production usage metrics using Grafana and PostgreSQL

PROJECTS

Efficient Search Engine | *Data Structures, Trie, Python, Tkinter*   November 2023
- Designed and implemented an advanced search engine using a Trie data structure, resulting in a 22 percent increase in search speed
- Developed an auto-complete algorithm that offers real-time suggestions to users, resulting in 25 percent increase in user engagement
- Leveraged cutting-edge technology and algorithmic solutions to significantly improve system performance and user satisfaction

AllFootball | *React.js, GraphQL, Bootstrap, Redis, Firebase, Azure, Docker*   May 2023
- Developed a React and GraphQL based app for live European Football updates, featuring intuitive UI/UX and scalable architecture
- Leveraged MongoDB Atlas for database management; deployed on Microsoft Azure with load balancing
- Served as Scrum Master, managing code quality, code review, debugging, and JIRA board for project oversight

Australian Rainfall Prediction | *Python, SciPy, Matplotlib, Pandas, Seaborn*   April 2023
- Led a predictive study on Australian weather using Python, forecasting rainfall with an advanced machine learning model
- Developed a binary classification system to predict next-day rainfall by performing extensive data analysis for accurate forecasting
- Applied SVM, KNN, and linear regression techniques to optimize prediction models, successfully achieving high accuracy metrics

YASMP | *Node.js, React.js, Express.js, Redis, Tailwind CSS, AWS, Docker, Kubernetes*   December 2022
- Developed a MERN stack Instagram clone, leveraging Kafka for messages and Redis for caching, ensuring efficient operations
- Orchestrated containers using Kubernetes ensuring efficient management and scaling, and performed deployment on AWS EC2
- Enhanced user experience by refining user interface with Tailwind CSS to craft a responsive, user-centric frontend design