# 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, UI/UX, OAuth, SEO, Microservices, Junit
**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, Atlassian, Git, Excel, Agile, Linux, Unix, Bitbucket, VS Code
**Certifications:** Introduction to Front-End Development (**Meta**), Software Design Patterns by University of Alberta (**Coursera**)

## SOFTWARE DEVELOPMENT EXPERIENCE

**Graduate Student Assistant, Stevens Institute of Technology** | Hoboken, NJ                   November 2022 - Present
- Developing and crafting web pages for school courses, enhancing user engagement and expanding the course catalog visibility
- Engineered an automated email campaign system resulting in 40 percent reduction in manual email handling time
- Refined SQL queries for audience segmentation and streamlined web services updates, achieving a 20 percent uplift in user retention

**Software Developer, Anuta Networks** | Bengaluru, India                                              July 2021 - July 2022
- Developed a Node.js backend to create an end-to-end microservice for user profile verification, enhancing authentication accuracy
- Proposed architectural solutions and streamlined workflow planning and delivery, leading to an increase in project efficiency
- Developed a React-driven dashboard for device information enabling efficient device organization and product integration
- Streamlined Devops operations with a CI/CD pipeline leveraging Docker and Jenkins increasing efficiency and reliability
- Executed automation of maintenance tasks using Python and Shell scripts, achieving a 57 percent reduction in execution time

**Senior Systems Engineer, Infosys Ltd.** | Bengaluru, India                                            June 2018 - July 2021
- Led a team of 6 in the architecture design and delivery of add-to-cart microservice, boosting system reliability and scalability
- 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 enterprise solutions to single-page web application (SPA)
- Displayed excellent communication skills during software development life cycle (SDLC) and performed testing automation
- Transformed a monolithic application (payment) into full stack microservices with Java Spring Boot, and cross-functional, external payment APIs resulting in increased system modularity and scalability and high performance on both mobile and desktop platforms
- Utilized Hibernate ORM for efficient database operations with Oracle, resulting in 20 percent reductions in database related delays
- 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
- Integrated user interfaces using the Tkinter library, enhancing the user experience with more intuitive and visually appealing UI

**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 a NoSQL database (MongoDB Atlas) for database management; deployed on Microsoft Azure with load balancing
- Served as Scrum Master, managing code quality, documentation, code review, debugging, and JIRA board for project oversight

**Australian Rainfall Prediction** | *Python, SciPy, Matplotlib, Pandas, Seaborn, Numpy*                   April 2023
- Led a data-driven, predictive study on Australian weather using Python, forecasting rainfall with a machine learning model
- Developed a binary classification system to predict next-day rainfall by performing data analysis for 93 percent 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, Kubernetes, ElasticSearch*          December 2022
- Designed a MERN stack Instagram clone, utilizing Apache 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 user-centric, responsive design