DEEPALI NAGWADE

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EDUCATION

Stevens Institute of Technology

New Jersey, USA

Sept 2022- May 2024

Relevant Courses: Web Programming, Agile Methodology, Data Mining, Algorithms, Human Computer Interaction, Software Design and Analysis

Shri GS Institute of Technology and Science

Master of Science, Computer Science, GPA: 3.8/4.0

Madhya Pradesh, India

Bachelor of Engineering, Computer Science and Engineering

Aug 2014 - May 2018

Relevant Courses: Object-oriented Design, Distributed Systems, Data Structures, Systems programming, Computer Networks, Cybersecurity

WORK EXPERIENCE

Stevens Institute of Technology

New Jersey, USA

Web Development Assistant

Nov 2022 - Present

- Optimized SQL queries to access records of over 100k students and orchestrated automated email systems, boosting communication efficiency
- Collaborated with 3 cross-functional teams to implement dynamic course content on the department's website using React.is, improving UI
- Continuously enhanced website functionality by identifying root causes, bug fixes, testing and updating content, achieving 0 downtime

Anuta Networks

Bengaluru, India

Software Developer

Jul 2021 - July 2022

- Worked on developing 3 different microservices in Node.js and created scalable, customer-focused APIs supporting millions of concurrent operations with minimal latency. Created user profile verification with **OAuth** integration to enhance authentication security
- Engineered a robust DevOps CI/CD pipeline using Docker and Jenkins, improving deployment frequency by 40% and reducing failures
- Proactively addressed 25+ potential hot issues by leveraging Agile practices like Scrum and Kanban.
- Conducted in-depth Root Cause Analyses for each issue, providing detailed documentation to ensure consistent resolution strategies and enhance operational stability
- Enhanced application performance by 10% with Amazon ElastiCache and AWS Lambda for serverless computing, reducing operational costs

Infosys Ltd | Reliance Retail

Bengaluru, India

Senior Systems Engineer

Jun 2018 - Jul 2021

- Reengineered a monolithic platform into a Spring Boot and React driven MVC architecture, enhancing System Modularity
- Designed validation pipelines utilizing Python for data processing and comparison, achieving a 99% accuracy rate across 2M+ migrated records.
- Executed automation of maintenance tasks using Python and Shell scripts, accomplishing a 37% reduction in manual task handling
- Analyzed user feedback at each SDLC phase, leading to UI/UX features improvements; increased user engagement by 40%
- Leveraged AWS auto-scaling to optimize application resources and migrated the system from Oracle to DynamoDB, which resulted in a 20% reduction in database related delays hence improving system performance
- Lowered response times by 40% by building dashboards for monitoring production metrics using Grafana and PostgreSQL

PROJECTS

Efficient Search Engine | [GitHub] | Data Structures, Scrapy, Python, Next.js

Oct 2023 - Nov 2023

- Developed a search engine for academic papers using Python, Scrapy, BeautifulSoup, Elasticsearch, and MongoDB, implementing TF-IDF and BM25 algorithms for relevance ranking and inverted indexing for efficient document retrieval
- Indexed over 5000 documents, achieved an average search response time of 520 ms, and handled up to 67 queries per second

All Football | [GitHub] | React.js, Bootstrap, GraphQL, Redis, Firebase, Azure, Docker

Mar 2023 - Apr 2023

- Engineered a high-performance FotMob app clone using React and a custom GraphQL backend, enabling real-time football (soccer) updates and supporting over 1000 concurrent users with seamless data integration
- Deployed the application on AWS utilizing load balancing, auto-scaling, achieving high availability, reliability, and maintaining a 99.5% uptime.

Real-Australian Rainfall Prediction | [GitHub] | Python, SciPy, Matplotlib, Pandas, Seaborn, NumPy

Mar 2023 - Apr 2023

- Led a data-driven, study on Australian weather, forecasting rainfall with ML models (SVM, KNN, linear regression) and achieved 94% accuracy
- Tested and tuned hyperparameters to overcome overfitting, ensuring robust performance across 10 scenarios while leading a team of 3

Yet Another Social Media Platform | [GitHub] | Kafka, Redis, Tailwind CSS, Elasticsearch

Nov 2022 - Dec 2022

- Designed a MERN stack Instagram clone, Added 2 additional features: Mood Based Content Filtering and Flag inappropriate content
- Integrated WebSocket for real time communications, Apache Kafka as messaging and Redis as caching hence improved 30% operation efficiency
- Performed container orchestration with Kubernetes, utilized MongoDB for user data and posts, and Neo4j for social graph relationships resulting in a 20% improvement in query performance and managing over 5,000 active user connections

TECHNICAL SKILLS

Languages and Framework: Java, Python, JavaScript, Typescript, SQL, HTML5, CSS3, Node, Spring boot, Next.js, Bootstrap, Angular, Redux, ES6+ **Databases and Cloud:** MySQL, MongoDB, Oracle, Cassandra, AWS (S3, lambda, EC2, IAM, Aurora, CloudFront, Kinesis, RDS), Microsoft Azure

DevOps: Git, Docker, Terraform, CI/CD Pipelines, Jenkins, Kubernetes, IaC

Development Tools: Atlassian (JIRA), Confluence, GitHub, GitLab, Excel, Bitbucket, VS Code, Postman

CERTIFICATIONS

AWS Certified Solution Architect (ongoing), Introduction to Front-End Development (Meta), Software Design Patterns (Coursera), Algorithm Toolbox (Coursera), Full-stack Professional Developer (Udemy) Bloomberg Market Concepts (Bloomberg)