

SHARVIKA BARAPATRE

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EDUCATION

MS in Computer Software Engineering | Northeastern University, Boston

May 2024

Coursework: Data Structures and Algorithms, Cloud Computing, Database Management, Web Development

BE in Electronics Engineering | Shri Ramdeobaba College of Engineering, India

May 2018

Coursework: Database Management, C++, MATLAB, Linux

WORK EXPERIENCE

Intern | Commonwealth Fusion Systems, MA

Aug2023-Jan2024

- Developed a scalable full-stack Java web application in an agile environment, creating over 30+ RESTful APIs and microservices using Spring Boot and Maven, resulting in a 50% improvement in system performance and scalability
- Engineered real-time notification and collaboration system by integrating AWS Lambda using Python with Slack's API and webhook URLs, boosting team responsiveness by 60% through automated message handling
- Devised event-driven AWS Lambda system for monitoring Glue jobs and DMS tasks, incorporating SNS, SQS, and CloudWatch, for real-time error notifications and robust monitoring, improving reliability by 50%
- Implemented CI/CD pipelines using Jenkins, Docker, and Kubernetes for backend services, enabling seamless deployment, scaling, and achieving 98% code coverage through testing with JUnit and Mockito

Software Developer | Tech Mahindra, India

Mar2019-Jun2021

- Contributed to a cross-functional, full-stack project using agile methodology, developing 30+ RESTful APIs and microservices with React.js for the frontend and C++ for the backend, implementing object-oriented design patterns
- Resolved 40+ customer-reported issues in production, boosting site reliability by 20%, and implemented a caching layer using MongoDB and GraphQL, reducing database load and improving response times by 35%
- Reduced issue resolution time by 35% through rigorous unit and integration testing, ensured software quality with Selenium and Cypress, facilitated seamless production deployments using Jenkins
- Collaborated in daily stand-ups and sprint planning meetings, fostering team communication, translating requirements into user stories, conducting code reviews, and utilizing version control within the team

ACADEMIC PROJECTS

Webapp | Nodejs, SQL, GitLab, Restful API, Linux, DevOps, CI/CD

Sep2022-Dec2022

- Orchestrated AWS infrastructure deployment (VPC, cloud, database, storage) using Terraform for Infrastructure as Code, reducing deployment time by 50%
- Built serverless functions and RESTful APIs using AWS Lambda and API Gateway; established CI/CD pipeline with GitHub Actions, AWS CodeBuild, and CodeDeploy, facilitating automated testing, building, and deployment
- Enhanced security with SNS email verification, optimized integration testing, monitored EC2 instances with CloudWatch, and managed peak load with ALB triggers
- Ensured 98% code quality and reliability through test-driven development crafting comprehensive unit tests using Jest and Google Test frameworks within containerized environments orchestrated by Kubernetes

Data Stream | Kafka, ETL

Jan2022-Apr2022

- Implemented a Flask web application to handle over 10,000 simultaneous bid submissions, ensuring a seamless user experience and increasing bid entry efficiency by 50%
- Leveraged Apache Kafka (Confluent-Kafka cloud) to stream bid data, reducing data processing latency by 70% and enabling real-time ETL processes
- Developed Kafka consumers for parallel ETL processing, utilizing Spark for efficient data processing, resulting in a 40% reduction in time to extract, transform, and load records into a MySQL database, and a 30% improvement in data backup speed to a file system

SKILLS

Programming Languages: Java, Python, C++, JavaScript, Swift, Typescript

Backend & Databases: PostgreSQL, SQL Server, MongoDB, Oracle, PL/SQL, Redis

Web technologies: React, GraphQL, HTML5, CSS, AngularJS, Express, Bootstrap, SASS

Cloud Services: IAM, S3, EC2, Lambda, Elastic Search, SQS, SNS, CloudWatch, Docker, Kubernetes

Application Software/OS: JIRA, Git, GitHub, Excel, Jenkins, SharePoint, Linux