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**
- Architected and developed a scalable full-stack Java web application, creating over 30+ RESTful APIs and microservices using Spring Boot and Maven, resulting in a 50% improvement in system performance and scalability
- Engineered a real-time notification and collaboration system by seamlessly integrating AWS Lambda with Slack's API and webhook URLs, boosting team responsiveness by 60% through automated message handling
- Devised an event-driven, highly reliable AWS Lambda system for monitoring Glue jobs and DMS tasks, incorporating real-time error notifications and monitoring with SNS, SQS, and CloudWatch, improving overall 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 rigorous integration and unit testing with JUnit and Mockito

Software Developer | Tech Mahindra, India　　　　　　　　　　　　　　　　　　**Mar2019-Jun2021**
- Contributed to a full-stack project using Agile methodology to develop 30+ REST APIs and microservices with React.js, Vue.js, GraphQL, MySQL, and Node.js, implementing the Repository pattern to isolate data access logic
- Resolved 40+ client application issues, boosting site reliability by 20%, and coordinated with cross-functional team to automate data processing with React.js, GraphQL, and microservices, cutting manual efforts by 50%
- Reduced issue resolution time by 35% through rigorous unit and integration testing, ensured software quality with Selenium and Cypress, and SASS for styling ,facilitated seamless production deployments using Jenkins
- Collaborated with a scrum team of 12 to translate client requirements into implementable user stories, facilitated code reviews and utilizing version control and documentation for efficient project management

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**
- Built a Flask web app using Apache Kafka (Confluent-Kafka cloud) for ETL, handling 10,000+ bid submissions, cutting data processing latency by 70%, and boosting bid entry efficiency by 50%.
- Created Kafka consumers for parallel processing and a Power BI dashboard, reducing ETL time by 40%, speeding up data backup by 30%, and improving decision-making speed by 60% with real-time visualizations

SKILLS

Programming Languages:	Java, Python, C++, JavaScript, Swift, Typescript
Backend & Databases:	Node, SQL Server, PL/SQL, MongoDB, Kafka, Oracle, PostgreSQL, Redis
Web technologies:	HTML5, CSS, React, Bootstrap, AngularJS, SASS, Express, Figma
Cloud Services:	IAM, S3, EC2, Lambda, Elastic Search, SQS, SNS, CloudWatch, Docker, Redshift
Application Software/OS:	JIRA, Git, GitHub, Excel, Jenkins, SharePoint, Linux