SINDHU KROVVIDI

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EDUCATION

Northeastern University

Boston, MA

Master of Science in Computer Science, CGPA: 3.9/4.0

Aug 2024

SKILLS & CERTIFICATIONS

Programming Languages: Java, JavaScript (including ES6+), TypeScript, Python, C#

Frontend: React, Redux, Next.js, Bootstrap, Tailwind CSS, Angular, HTML5, Webpack, Babel, Storybook, Sass, Figma

Backend: Node, Express, Spring Boot, RESTful API, GraphQL, MongoDB, MySQL, PostgreSQL

DevOps & Others: AWS, Docker, Jenkins CI, GitHub Actions, Gitlab CI/CD, Redis, Jenkins, Mocha, JUnit, Jest, React Testing Library, Cypress

WORK EXPERIENCE

Trimble Inc, Princeton, New Jersey

May 2023 - Dec 2023

Software Development Engineer Co-op

- Engineered a secure web application to modify the SQL database leveraging React, Redux, TypeScript and Node microservices
 eliminating the direct database credential sharing thereby enhancing security and accessibility
- Utilized **context providers** and **custom hooks** to enable dynamic rendering enhancing modularity and integration and reduced page load times by 25% through **react-query**, lazy loading, pagination and debouncing
- Integrated web applications with cloud-based authentication and authorization via OpenId Connect, OAuth and JWT and configured Role Based Access Control reducing authentication latency by 30%
- Optimized the internal setup for development and staging environments using Docker multi-stage builds, reducing image size by 80% and enhancing security in container images
- Streamlined Jenkins CI pipelines to accelerate deployment cycles by 50% across production environments, increasing operational efficiency
- Designed and tested **RESTful APIs** for a fleet management application using **Node**, leveraging **MongoDB** for data storage, enhancing data flexibility and optimizing queries, resulting in 30% improvement in web performance
- Enhanced database performance and scalability by developing **efficient schema models** and **indexing strategies** in MongoDB, resulting in a 30% decrease in query response time and enhanced data retrieval efficiency
- Developed a Python script to migrate SQL Server database to PostgreSQL, resulting in reduced license costs and improved scalability
 ensuring 100% data integrity and decreased migration downtime by 50%

Northeastern University, Boston, Massachusetts

Sep 2022 – Apr 2023

Full Stack Engineer

- Led the development of a foundational codebase, empowering students to create their own projects with Angular, RxJS, Angular Signals,
 NgRx for state management, MaterialUI and Bootstrap, alongside Typescript to create a responsive and scalable UI
- Crafted API endpoints and implemented business logic using **Spring Boot**, **JPA**, **Hibernate**, and **Spring Security**, reducing response times by 40% and improving overall performance
- Revamped internal tools using React to streamline course scheduling, incorporated nodemailer in Node for email deadline notifications, and conducted A/B testing
- Implemented Test Driven Development (TDD) and GitHub Actions for continuous integration with 80% code coverage

Goodera, Bengaluru, India

Jan 2019 - Jul 2022

Senior Software Development Engineer

- Created a reusable component library with over 30 widgets for a company-wide design system using **React**, **TypeScript**, and **Tailwind CSS**, and **Storybook** for documentation and testing, reducing UI development time by 10 days per project
- Spearheaded "Canvas", a high-performance, cross-browser compatible web application for custom dashboards with drag-and-drop using **MERN** stack and **Javascript** having 80% unit tests coverage with **Jest** and **React Testing Library**
- Improved website performance by implementing **react-query**, optimizing **browser caching**, and configuring **Webpack**, resulting in a 70% reduction in Largest Contentful Paint (LCP) and a 40% decrease in latency
- Engineered a Mongo 'Query Builder' in Node integrating with Redis, enhancing data retrieval and improving system response times by 60%, demonstrating strong decision-making skills in optimizing caching strategies and query performance
- Built robust REST APIs for Client Onboarding in Node and Express, reducing task time by 70%, along unit testing with Mocha and Jest
- Employed Docker's Compose feature to containerize the application and orchestrated the deployment of microservices on AWS using AWS Kubernetes Service, resulting in optimized resource utilization and increased reliability
- Collaborated with DevOps and operations team to automate deployments on EKS using Jenkins, enhancing deployment cycles, software
 quality, and overall productivity by 50% by efficiently troubleshooting and resolving critical UI and backend issues within an agile framework
- Mentored 5 team members, collaborated with cross-functional teams on technical grooming, code reviews and organized scrums with Jira
- Received award (Q2FY21) for consistently delivering high-quality results and contributing to project success through problem-solving skills

PROJECTS

AWS Cloud Infrastructure Project | AWS, GitHub Actions, GitLab CI/CD

Apr 2024

- Automated provisioning of AWS services (EC2, VPC, S3, RDS, LoadBalancers, Firewall) using CloudFormation templates
- Deployed web applications on AWS using Gitlab CI/CD pipeline, increased system security using IAM policies

Stack Overflow | Next.js, React, Node, Mongo, Cypress, Docker, GitHub Actions

Jan 2024

- Devised a Q&A platform similar to Stack Overflow utilizing React and Next.js, integrating MongoDB
- Executed end-to-end testing using Cypress and deployed via Docker on AWS EC2 using GitHub Actions CI/CD pipelines