

SINDHU KROVVIDI

Boston, MA, 02119 (Open to Relocation) • sindhukrovvidi@gmail.com • (617) 909-8576 • [LinkedIn](#) • [Portfolio](#)

SUMMARY

Highly skilled Software Engineer with a Master's in Computer Science from Northeastern University and over 4 years of experience in developing high-performance, responsive web applications. Proficient in front-end technologies like React, Angular and back-end frameworks like Node, Spring Boot. Experienced in architecting scalable web applications using MERN, MEAN, and Java/Spring Boot with a focus on performance and reliability. Expertise includes CI/CD workflows and AWS cloud solutions. Committed to staying current with industry trends and continuously honing my skills to deliver exceptional software solutions.

WORK EXPERIENCE

Trimble Inc, Princeton, New Jersey

May 2023 – Dec 2023

Software Engineer Intern

- Developed “Hydra”, a web application, empowering users to access and modify data in the SQL database using **Angular, C#** and **.NET** microservices with cloud authentication and authorization through **OAuth, JWT** and **RBAC**
- Boosted the application with lazy loading and debouncing, increasing the throughput by 20% and reducing the page load times by 15%
- Designed and tested **RESTful APIs** for a fleet management application using **Node**, leveraging **MongoDB** for NoSQL data storage, enhancing data flexibility and optimizing queries, resulting in 30% improvement in web performance
- Efficiently migrated **SQL Server** database to **PostgreSQL** using Entity Framework by developing a **Python** script, ensuring 100% data integrity and decreasing migration downtime by 50%
- Collaborated with DevOps team to deploy Node microservices using **Docker** on **AWS EC2**, using **Kubernetes** for container orchestration
- Automated **Jenkins CI** pipelines for seamless deployment across environments, enhancing operational efficiency
- Significantly improved product quality and reduced turnover time by effectively troubleshooting and resolving critical UI and backend issues within an **agile** framework

Northeastern University, Boston, Massachusetts

Sep 2022 – Apr 2023

Full Stack Developer

- Led the frontend development of “Husksheets” and “Covey.Town”, collaborative applications using **React, Redux, Typescript** and enabled real-time chat through **WebSockets**
- Constructed a user interface with responsive design in **Figma**, applying web design principles that improved user satisfaction by 20%.
- Assisted in API development with **Spring Boot, JPA, Hibernate, Spring Security**, enhancing security and efficiency
- Utilized **Maven** for build automation, managing project dependencies, compiling source code and streamlining the testing and deployment of applications and leveraged Git version control

Goodera, Bengaluru, India

Jan 2019 – Jul 2022

Software Development Engineer - Senior SDE

- Created a responsive, reusable component library having 30+ widgets using **React.js, TypeScript**, and **Tailwind CSS**, utilizing **Storybook** for documentation and unit tests, bringing down the development time by 10 days
- Spearheaded and deployed “Canvas”, a high-performance, cross-browser compatible web application for custom dashboards with drag-and-drop using **MERN** stack, having 80% test coverage with **Jest** and **React Testing Library**
- Substantially improved website performance through react-query, optimized browser caching and **Webpack** configuration, reducing Largest Contentful Paint (LCP) by 70% and latency by 40%
- Maximized database performance and scalability by designing efficient schema models and **indexing strategies** in **MongoDB**, leading to a 30% reduction in query response time and refined data retrieval efficiency
- Containerized application using **Amazon ECS** and **AWS Kubernetes Service(EKS)** for container orchestration and deployed robust microservices on AWS using Docker, utilized **S3** for images and hosting static websites
- Implemented **DevOps** practices including **Docker, Kubernetes**, and **Jenkins**, by collaborating with DevOps and operations team to improve deployment cycles, software quality and overall productivity

- Architected a scalable event-driven architecture utilizing **Kafka** which facilitated real-time data processing and enhanced system scalability by efficiently handling high volumes of data flow, resulting in a 20% increase in processing efficiency
- Owned robust back-end services in **Node** and **Express**, creating and managing REST APIs for data exchange in JSON
- Upgraded Internal tools with **ReactJS**, adding email scheduling and **A/B** testing, and implemented **Test Driven Development (TDD)** and **GitHub Actions** for continuous integration with 80% code coverage
- Developed **CI/CD** pipelines using **Jenkins** and deployed into different environments by creating docker images
- Engineered a Mongo “Query Builder” in **Node.js** with **Redis caching**, improving system response times by **60%**
- Awarded with “**Quality Award**” for consistently demonstrating strong problem-solving skills, reliable application development, exceeding expectations in all core competencies, played a pivotal role in **renewing 5 client contracts**
- Mentored **5** team members, fostered effective communication skills by collaborating with cross-functional teams on UI/UX, technical grooming, code review, providing feedback to improve code quality, organized scrums utilizing Jira
- Built 5 interactive websites using HTML5, Bootstrap, JavaScript, and jQuery, improving KPI presentation for CSR initiatives

EDUCATION

NORTHEASTERN UNIVERSITY	Boston, MA
Master of Science in Computer Science, CGPA: 3.9/4.0	Sep 2022 - Aug 2024
<ul style="list-style-type: none">• Coursework: Programming Design Paradigms, Cloud Computing, Data Structures and Algorithms, Web development, System Design, Object Oriented Programming	

SKILLS

Programming Languages: Java, JavaScript (including ES6+), TypeScript, Python, C#
Frontend: React, Redux, Next.js, Vue.js, Bootstrap, Tailwind CSS, Angular, HTML5, Webpack, Babel, Storybook, Sass, Figma
Backend: Node, Express, Go, Spring Boot, .NET framework, RESTful API, GraphQL, MongoDB, MySQL, PostgreSQL
Tools & Others: AWS, Docker, CI/CD, Kafka, Redis, Jenkins, JUnit, Jest, React Testing Library, Cypress, Mockito, NPM, Yarn, ESLint, Maven

PROJECTS

Hospital Management System (In-progress)	Present
<ul style="list-style-type: none">• Developed a robust hospital management system with efficient CRUD operations and designed an interactive analytics dashboard using Dash and Plotly, providing insightful visualizations and data analysis• Employed Flask and SQLAlchemy for seamless backend integration and efficient data handling	
AWS Cloud Infrastructure Project	Apr 2024
<ul style="list-style-type: none">• Automated provisioning of AWS services (EC2, VPC, S3, RDS, Cloudwatch, LoadBalancers, Firewall) using CloudFormation templates• Deployed web applications on AWS using Gitlab CI/CD pipeline, increased system security using IAM policies	
Stack Overflow , Link	Apr 2024
<ul style="list-style-type: none">• Devised a Q&A platform similar to Stack Overflow utilizing React and Next.js, integrating MongoDB.• Executed thorough end-to-end testing using Cypress to ensure robust functionality, and deployed via Docker on AWS EC2 using Gitlab CI/CD pipelines	
Stocks Investopedia , Link	Dec 2022
<ul style="list-style-type: none">• Pioneered a Java application with MVC architecture enabling stock investment, dollar-cost averaging and portfolio rebalancing• Applied SOLID principles and design patterns, such as Singleton, Builder and Factory and achieving 75% JUnit test coverage with enhanced code robustness, error handling, and reduced post-release bugs by 30%	