Astha Tripathi

Bachelor of Technology
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EDUCATION

•**Bachelor of Technology in Computer Science and Engineering**   *2020-24*

JSS Academy Of Technical Education, Noida   CGPA: 8.86

PERSONAL PROJECTS

•**ChitChat**

Html ,CSS, JAVASCRIPT,NodeJS,MongoDB,Express Js,Socket.IO ,SocketProgramming,RestfulAPI

– A **fully-featured web platform for seamless user communication**, offering chatroom discovery, multi-user real-time chat, file sharing, and personalized room creation, developed using

– Its also allows user to create new chat room for themselves and invite people to join that incase genere doesn't match from given

•**medEasy**

Html ,CSS, JAVASCRIPT, Machine Learning,Java,SpringBoot,MongoDB,OAuth

– a **fully developed web platform** that is meant to help user who are in need of medicine but are not able to avail it either due to financial issues or due unavailability of medicine at the present time through this platform we connect user to those individuals who have that medicine and are ready to donate it.

•**RedeployBot**

goLang,Kubernetes,OperatorSDK,Helm,Docker

– **Engineered a custom Kubernetes CRD Operator in Go** to automate and enhance deployment lifecycle management. This solution performs comprehensive pre-restart health assessments, leveraging Go's concurrency for efficient checks. It integrates with Microsoft Teams for real-time alerts on unhealthy applications, preventing restarts. Upon successful restarts, it confirms service stability through post-deployment health checks and notifies stakeholders, ensuring high availability and informed operations.

EXPERIENCE

•**Software Engineer(Site Reliability Engineer1)**   *July 2024 - Present*

Zeta(Directi)

– **Engineered performance optimizations** across **Pluxee App**'s backend services (India and Philippines), directly enhancing user experience and reducing latency for high-traffic operations.**Designed and implemented** custom monitoring and alerting solutions within **Kubernetes**environments

– **Developed and optimized core backend functionalities**and **database interaction layer** to support scalable, high-availability applications. Proactively enhanced **AWS infrastructure security posture**from 69% to 76% through secure coding practices and configuration automation.

– Led the end-to-end development of new features, including **authentication modules, real-time dashboards, and critical API integrations**,for **Helena, a full-stack microservices-based web application**, from design to deployment.

– Tech Stack : **GOLang,Java,Kubernetes,Docker,AWS,RestfulApi**

•**Software Engineer(Site Reliablity Engineering Intern)**   *February 2024 - July2024*

Zeta(Directi)

– **Designed and impelemented kubernetes operator** that could monitor the given deployment in given namespace and integration of messaging tool in order to get notification about the deployment Working on docker ,Kubernetes,Serverless Framework,Bitbucket.Responsible for setting up monitoring for whole infrastructure using prometheus-operator.

– Tech Stack :**goLang,Java,Kubernetes,AWS,DataBase,Python,Docker**

•**Intern**   *July 2023 - Aug 2023*

Bharat Intern

– Worked on Blog uploading fullstackWeb application and Project Management tool

– Assisted in the design and maintenance of user-friendly interfaces.

– Tech Stack :**ReactJS, HTML, CSS, jQuery**

TECHNICAL SKILLS AND INTERESTS

Languages: Java, JavaScript, Python, SQL, HTML, CSS, TypeScript
Libraries: ReactJs, Socket.IO, TailWindCSS, jQuery
Web Dev Tools: VSCode, Git, GitHub, Bitbucket, Chrome Developer Tools
Frameworks: Node.js, Express.js, Next.js, Bootstrap, Serverless Framework
Cloud/Databases: MongoDB, AWS, Prometheus, Grafana, Relational Databases (MSSQL),Docker
Relevant Coursework: Data Structures & Algorithms, Operating Systems, Object-Oriented Programming, Database Management Systems, Computer Networking, Kubernetes
Soft Skills: Problem Solving, Collaboration, Critical Thinking, Adaptability, Debugging & Troubleshooting, Communication