Namitha Jajur Chandrashekhar

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EDUCATION

Master's In Computer Software Engineering, *Northeastern University, Boston, MA* *Sep 2022 – Aug 2024*
Relevant Coursework: Program Structures and Algorithms, UI / UX, Database Management systems, Prompt Engineering and Gen AI

Bachelors in Computer Science, *VTU, Bengaluru*, India *Aug 2016 – Sep 2020*
Relevant Coursework: Algorithm design, Machine Learning, Linux Operating Systems, Cloud computing, Software Engineering

TECHNICAL SKILLS

Languages: TypeScript, Python, C#, Go, Java, MATLAB, Javascript, HTML5, CSS
Web Development: React, Next, Angular, Vue JS, Node JS, Express.js, Flask, Ruby, Spring Boot, Redux
Database: MySQL, Postgres, MongoDB, Graph QL
Cloud Services: AWS Cloud Services, GCP, Elasticsearch
CI/CD Tools: Jenkins, Tomcat, GitLab, Kubernetes, Terraform, Docker
Others: Kafka, RabbitMQ**,** Jira, Git, Confluence, Bitbucket, Linux

WORK EXPERIENCE

The Burnes Center for Social Change |Boston, MA
Web Developer *Aug 2023 – June 2024*

- Accomplished responsive design of the web app usability by employing Graph QL for efficient data retrieval from Directus CMS, using front-end Vue.js, TypeScript, JavaScript and Tailwind CSS, boosting session times by 15%
- Pioneered the development of a microservice architecture using Express, Flask, and Spring Boot, expanding scalability and reducing deployment times by 13%
- Analyzed and deployed interactive web visualizations for course attendance data from Moodle LMS with D3.js and TypeScript, improving data accessibility and interpretation for educators
- Executed thorough testing with Browser Stack and Cypress ensuring accessibility by adhering to WCAG 2.1 standards and enhanced web app responsiveness and usability by collaborating with stakeholders and Figma designers ensuring compliance with WCAG 2.2

Infosys Limited | Bengaluru, KA
Software Engineer (Client- Pfizer Technologies) *Mar 2021 – Jun 2022*

- Enhanced application performance by 10% and decreased load times by optimizing backend with Hibernate caching and Redis; integrated Angular's dynamic content loading, reducing average load time by 2.5 seconds
- Improved database security and reduced query execution times by 9% by streamlining Hibernate ORM and securing API access with robust OAuth protocols for high compliance standards
- Counselled in improving service deployment efficiency by 16% through the development of a CI/CD pipeline by integrating Docker, Kubernetes, and Jenkins to automate code deployment, ensuring faster and more reliable service updates

PROJECTS

Gift Genie: *Python Flask, PineCone, Gemini* *Jun 2024 – Jul 2024*

- Developed a personalized gift recommendation system using Flask for the backend, hosted on GCP
- Incorporated Retrieval-Augmented Generation (RAG), Large Language Models (LLM), and a vector database, achieving an 85% accuracy rate in gift recommendations

GCP Web App Deployment with DevOps Automation: *Node.js, HashiCorp, GCP* *Jan 2024 – Apr 2024*

- Developed and deployed a scalable Node.js web application on Google Cloud Platform (GCP), employing HashiCorp packer for image creation and GitHub Actions for CI/CD
- Orchestrated infrastructure using Terraform, encompassing networking via VPC networks, compute engine, DNS, TCP/IP and Cloud SQL databases, Auto Scalers, Load Balancers and HTTPS Support via SSL Certificates

Aqua Paths: *React, Node JS, Postgres, Kafka, Spring Boot, Bootstrap, LLM, React Leaflet Maps, Jenkins, Kubernetes* *Jun 2023 – Aug 2023*

- Utilized Sea Routes APIs to develop an open platform optimizing sea routes, achieving a 40% reduction in CO2 emissions by factoring in weight and cargo
- Implemented Deepsea Forecast system and Marine Life insights tool, significantly boosting fishermen's efficiency

Wellness Wallet: *Personal-Health-Care Application (Spring Boot, Node JS,Go, Mongo DB, AWS S3 Bucket)* *Apr 2023- Jun 2023*

- Developed a healthcare app for users to save medical bills, reports, and health data, ensuring 100% uniform storage
- Enabled 60% adherence improvement through collaborative medication management with family involvement