PRUDHVI HARI SAI CHARAN NAKKINA

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EDUCATION

Northeastern University, Boston, MA, USA   **January 2022 - April 2024**
Master of Science in Information Systems (GPA – 3.72)
Courses: Program Structures & Algorithms, Object Oriented Design, Database Management, Web Development & Design, Cloud Computing

TECHNICAL SKILLS

Languages	**:**	Java, JavaScript, Python, TypeScript, Golang, Linux/Bash Shell Scripting
Front-End	**:**	Angular, React.js, Redux, AJAX, HTML, CSS, SCSS/SASS, Figma, Bootstrap, Webpack
Back-End	**:**	Spring Boot, Express.js, Node.js, REST API, GraphQL, Kafka, Apache Tomcat, Jest, Junit
Databases	**:**	MySQL, PostgreSQL, MongoDB, Microsoft SQL Server, Redis, Hibernate (ORM)
Cloud/DevOps	**:**	Amazon Web Services (AWS), Google Cloud Platform (GCP), Docker, Kubernetes, Terraform, Packer, Jenkins
CI-CD and Tools	**:**	Git, GitHub Actions, GitLab, JIRA, Microsoft Office 365, Zipkin, Splunk, Postman, Eclipse, Visual Studio Code

WORK EXPERIENCE

SIRI Software Solutions, New Jersey, USA

Web Development Intern   **September 2023 - December 2023**

- Contributed to the development and optimization of SIRI's internal online learning platform focused on delivering technical training
- Leveraged Node.js, Express.js & Sequelize in building controllers & RESTful APIs for effective course content & user profile management. Integrated a badge rewarding system tied to course set completion, resulting in an 18% increase in enrollment rate
- Elevated user engagement by 10% with a dynamic React interface, crafting personalized dashboards to highlight course progress and recommend badges. Ensured a seamless user experience by optimizing the UI for responsiveness across devices.
- Enhanced the platform performance by strategically handling useEffect hooks to minimize unnecessary calls and implementing Memoization & Code-Splitting techniques for efficient rendering, leading to a 12% reduction in rendering times

INFOSYS Limited, Pune, India

Software Engineer   **June 2019 - December 2021**

- Collaborated with the C Spire onshore team for Full Stack Development of C Spire's E-Commerce Platform. Successfully delivered 3 development projects, and tracked & debugged 30+ complex production bugs
- Spearheaded Java & Spring Boot development in a Microservices architecture. Built OAuth secured APIs using Spring Security, streamlined system functionality with cross-service API versioning updates, culminating in a 30% reduction in API response time
- Contributed significantly to the system design and integration of a new customer type to the platform, involving the creation of new fiber plans in the database & new business logic flows and APIs in the backend, resulting in a 10% boost in fiber customer acquisition
- Crafted engaging product catalogs, dashboards, and shopping flows (Angular/TypeScript/SCSS), boosting engagement by 15%, Revamped checkout page with tokenized payments and intuitive design for a 6-step flow, increasing successful transactions by 25%
- Architected services for seamless API integration across components, harnessed directives for strategic conditional rendering, utilized Angular Router for efficient navigation, and leveraged lifecycle methods, achieving a 20% reduction in page load times
- Leveraged JUnit for unit testing, Jenkins for CI/CD, and Git for version control, demonstrating expertise across development stages
- Worked in an Agile environment with Sprint deliveries, using Kanban boards to track task progress and JIRA for tracking bugs

RELEVANT PROJECTS

Cloud-Native E-Commerce Inventory Management System (AWS, Terraform, Node.js) link1 link2   **JANUARY 2023**

- Designed and implemented a secure, scalable Node e-commerce backend with authenticated REST APIs, user management, product management, and image storage on AWS S3, Deployed the application on AWS EC2 instance
- Automated infrastructure provisioning on AWS using Terraform for EC2 instances, S3 buckets, EBS volumes, RDS database, IAM roles/policies, Auto Scaling, and security groups, ensuring secure communication and access control
- Implemented dynamic workload scaling with autoscaling based on custom metrics and integrated an application load balancer with custom health checks for high availability, hosted the application on custom Domain using Route53
- Orchestrated seamless CI/CD with GitHub Actions, automating test-driven development, custom AMI creation, and cloud resource updates with Instance Refresh upon every merge, ensuring code quality and fast deployments

Microservices Architecture for Order Processing (Spring Boot, Docker, Kubernetes, GCP, Jenkins) link   **MAY 2023**

- Developed an order processing system in a microservices architecture(Orders, Payments, Products) leveraging Spring Boot, OKTA for authorization, Resilience4j for circuit breaker, Redis for rate limiting, and Feign Client for cross service API calls
- Automated service build and deployment through Jenkins pipelines, creating Docker images for each microservice and pushing them to an on-premises artifact registry
- Deployed the application in a Kubernetes cluster by creating deployments, stateful sets, and services, leveraging GKE & Kubectl