CHANDRA PAVAN, PRATHAPANENI

Richardson, TX | 945-267-3322 | cxp220038@utdallas.edu | LinkedIn | GitHub | pavanpc.com

EDUCATION

University of Texas, Dallas, TX, USA   **January 2023 - December 2024**

Master of Science in Information Technology and Management (GPA – 3.788)

Courses: System Analysis & Project Management, Object Oriented Programming , Practical User Centric Web Development, Data Management, AWS Cloud Solution Architecture, Programming for Data Science, Digital Consulting Project, Cloud Computing, Business Analytics, Marketing Management.

WORK EXPERIENCE

Capgemini, Hyderabad, India

Software Engineer   **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 Elasticsearch for advanced search functionality, enhancing discoverability of course content and improving user experience
- Collaborated on enhancing the user authentication system with custom JWT (JSON Web Tokens) verification in the backend. Elevated user engagement by 10% with a dynamic React interface, crafting personalized dashboards and responsive UI 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 cross-functional teams 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
- Implemented a distributed caching layer using Redis, reducing data access latency by 40% and database load by 30% across microservices. Additionally, employed Redis-based rate limiting, reducing server overload incidents by 20% during peak usage
- 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%
- Implemented Lazy Loading through dynamic sub-module imports, utilized Angular Router for efficient navigation, implemented Route Guards for robust authentication, Integrated Cloudflare CDN for content-heavy pages, resulting in 20% faster page load times
- Engineered and managed a CI/CD pipeline using Jenkins and GitLab, driving efficiency and reliability. Enforced code quality with automated JUnit testing before merges, resulting in a 30% reduction in deployment errors and accelerating time-to-deployment by 20%
- Worked in an Agile environment with Sprint deliveries, using Kanban boards to track task progress and JIRA for robust bug tracking

TECHNICAL SKILLS

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

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 on merge and pushing them to an artifact registry on GCP
- Deployed the application in a Kubernetes cluster by creating deployments, stateful sets, and services, leveraging GKE & Kubectl