Prathmesh Pardeshi

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EDUCATION

Northeastern University, Boston, MA | *Master of Science, Information Systems* May 2024
Relevant Courses: Frontend Web Development, Data Management & Database Design, Network Structures & Cloud Computing, User Experience Design/Testing, Object Oriented Design in C++

Savitribai Phule Pune University, Pune, India | *Bachelor of Engineering, Electronics & Tele-communication* July 2021
Relevant Courses: Operating Systems, Object-Oriented Programming, Robotics, Data Structures & Algorithms

TECHNICAL SKILLS

Programming Languages	C++, Java, Python, JavaScript, Golang, Bash, HTML, CSS
Web & Frameworks	ReactJS, Node.js, .Net, JavaScript, Sass, Webpack, TypeScript, Bootstrap, Ajax, Spring Boot, GraphQL
Database	MongoDB, MySQL, PL/SQL, PostgreSQL, Redis, MariaDB
Cloud Computing	AWS (VPC, EC2, RDS, CloudWatch, IAM, Autoscaling, Load Balancer), GCP, IaC, Docker, Terraform, HCP Packer
Software Tools	IntelliJ, Linux, Debian, Confluence, GitHub, Postman, JIRA, Jenkins, Microsoft Office Suite, Figma

EXPERIENCE

Tata Consultancy Services Ltd., Pune, India Aug 2021 - Aug 2022
Software Engineer I

- Designed & developed scalable backend services and microservices to meet critical product and business needs for one of Canada's largest corporate banks, utilizing Java, Spring Boot, and Maven
- Leveraged Docker containers and orchestration of microservices, ensuring efficient deployment and scalability
- Coordinated comprehensive end-to-end (E2E) testing, rigorously conducted UAT and smoke tests leveraging Selenium, Cypress, and Cucumber frameworks
- Crafted test plans in ALM & generated comprehensive reports summarizing key insights & KPIs for effective decision-making
- Implemented RESTful APIs & migrated microservices to Node.js frameworks like Nest JS, Axios and Fastify, resulting in a 65% improvement in data access efficiency
- Engineered automated test suites, CI/CD pipelines utilizing Jenkins, GitHub for accelerated delivery, robust version control
- Leveraged AWS (EC2, Lambda, S3), Docker and Terraform for Infrastructure as Code, achieving virtualization and ensuring scalability & streamlined DevOps processes in Agile setting
- Collaborated with cross-functional teams for streamlined deployments from Dev to Prod region, reducing service disruptions by 80%, saving substantial time & resources required for manual execution

PROJECTS

Learning Management System | *Node.js, Terraform, AWS* | *GitHub* Nov 2023

- Developed LMS application with Base64 authentication for security, handling thousands of concurrent requests effortlessly
- Deployed RESTful API on AWS with Terraform involving VPC, RDS & EC2 instances with encryption by KMS, using a custom AMI built with Packer to optimize server setup time, resulting in 50% reduction in deployment time
- Modelled custom GitHub Actions to setup CI/CD pipelines for streamlining API delivery & used mocha for Integration Testing
- Leveraged CloudWatch logs & monitored key metrics, reducing the mean time to detect & resolve operational issues by 85%
- Integrated a Lambda Function to automate email notifications via an SNS topic, established auto-scaler, managed success/failure timestamps in DynamoDB & configured Load Balancer for efficient handling of increased traffic

Insurance Plan Management Application | *Spring Boot, Redis, Elasticsearch* | *GitHub* July 2023

- Created a Redis-configured Spring-boot application to handle structured JSON data for insurance plan management
- Integrated token-based authentication using Google OAuth 2.0 to expedite the user login process
- Incorporated Elasticsearch cluster for handling parent-child indexing and performing search operations with join capabilities
- Employed RabbitMQ queueing (AMQP) to enable asynchronous communication & increase the scalability of the application

One-stop Rental Platform | *JavaScript, React, Bootstrap* | *GitHub* Dec 2022

- Designed a full-stack web application leveraging MERN stack, facilitating house renting and buying with over 250 active listings, successfully deployed to Heroku
- Employed React, Sass and Bootstrap for the frontend, in conjunction with Redux for state management
- Built using Node.js Express Architecture with CORS Authentication and Bcryptjs for password security, Mongoose ODM