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, HTML, CSS
Web & Frameworks	ReactJS, Angular, Node.js, JavaScript, Sass, TypeScript, Bootstrap, Spring Boot
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, Visual Studio, Confluence, Postman, JIRA, Microsoft Office Suite, Figma, Jenkins

EXPERIENCE

Software Engineer – Cloud | Greenstand | Remote, United States May 2024 – Present

- Assisted in Deployment of microservices on Kubernetes, enhancing developer insights into a complex service mesh
- Leveraged Infrastructure as Code (IaC) with Terraform to provision scalable AWS infrastructure for the Treetracker wallet app
- Developed & maintained Cypress test suites, improving test coverage and supporting efficient reforestation data processing via GitHub CI/CD pipeline

Software Engineer | Tata Consultancy Services Limited | Pune, India Aug 2021 - July 2022

- Engineered backend services utilizing Java fulfilling critical requirements for a leading financial institution
- Migrated microservices to Node.js framework optimizing caching & asynchronous processing, resulting in 2x faster data access
- Implemented RESTful API endpoints for bulk transaction processing, optimizing high-volume banking operations for clients
- Redesigned existing framework by integrating it with Maven, TestNG, increasing testing coverage by 75% & coded logic for enhanced security and access control
- Coordinated comprehensive end-to-end (E2E) testing leveraging Selenium, Junit, Cypress and Cucumber frameworks in Test-Driven Development (TDD) environment
- Designed and managed automated test suites, CI/CD pipelines utilizing Jenkin and GitHub for expediting delivery cycles
- Developed file upload functionalities leveraging Node.js, Express.js, and AWS services like EC2, Lambda, automating issue identification in financial documents, reducing manual review by 50%
- Collaborated with cross-functional teams to enhance automation test coverage and assisted in triaging automation results, ensuring comprehensive quality assurance & successful project delivery

PROJECTS

Learn Pilot | *AWS, Terraform, Sequelize ORM, MySQL* | *GitHub* May 2024

- 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 to monitor key metrics, reducing the mean time to detect & resolve operational issues by 85%
- Integrated Lambda 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

Quantum Pulse | Personal Project | *C++* | *GitHub* Mar 2024

- Designed a real-time stock market data processing system, achieving sub-millisecond latency with multi-threading and optimized data structures
- Transformed sequential processing into a thread pool model, slashing data parsing time by 40%
- Optimized performance to process 100,000 records per second using Linux APIs & advanced C++ features like smart pointers
- Implemented real-time analysis algorithms, improving accuracy with low-latency data structures for faster system response

Residential Management System | *PL/SQL, Oracle, RDS* | *GitHub* Aug 2023

- Implemented a robust relational database solution using PL/SQL to capture details on leases, rent and maintenance tracking
- Created stored procedures and triggers automating lease expiration alerts, facilitating proactive lease renewal management
- Restricted access through database roles, users to protect tenant data ensuring ACID properties of database transactions