

Prathmesh Pardeshi

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EDUCATION

Northeastern University , Boston, MA <i>Master of Science, Information Systems</i>	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 <i>Bachelor of Engineering, Electronics & Tele-communication</i>	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, Swagger, Jenkins

EXPERIENCE

Software Engineer Tata Consultancy Services Limited Pune, India	Aug 2021 - Aug 2022
<ul style="list-style-type: none">Engineered backend services utilizing Java & Spring Boot fulfilling critical requirements for a leading financial institutionMigrated microservices to Node.js framework optimizing caching & asynchronous processing, resulting in 2x faster data accessImplemented RESTful API endpoints for bulk transaction processing, optimizing high-volume banking operations for clientsRedesigned existing framework by integrating it with Maven, TestNG, increasing testing coverage by 75% & coded logic for enhanced security and access controlCoordinated comprehensive end-to-end (E2E) testing leveraging Selenium, Junit, Cypress and Cucumber framework in Test Driven Development (TDD) environmentDesigned and managed automated test suites, CI/CD pipelines utilizing Jenkin and GitHub for expediting delivery cyclesDeveloped 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, Node.js, GCP GitHub	May 2024
<ul style="list-style-type: none">Developed LMS application with Base64 authentication for security, handling thousands of concurrent requests effortlesslyDeployed 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 timeModelled custom GitHub Actions to setup CI/CD pipelines for streamlining API delivery & used Mocha for Integration TestingLeveraged 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
<ul style="list-style-type: none">Designed a real-time stock market data processing system, achieving sub-millisecond latency with multi-threading and optimized data structuresOptimized performance to process 100,000 records per second using Linux APIs & advanced C++ features like smart pointersTransformed sequential processing into a thread pool model, slashing data parsing time by 40%Implemented real-time analysis algorithms, improving accuracy with low-latency data structures for faster system response	
Residential Management System MySQL, Oracle, RDS GitHub	Aug 2023
<ul style="list-style-type: none">Implemented a robust relational database solution using PL/SQL to capture details on leases, rent and maintenance trackingCreated stored procedures and triggers automating lease expiration alerts, facilitating proactive lease renewal managementRestricted access through database roles, users to protect tenant data ensuring ACID properties of database transactions	
RentPe Rental Platform HTML, CSS, JavaScript, React, Bootstrap GitHub	May 2023
<ul style="list-style-type: none">Developed MERN-based full-stack web application for house rentals/sales with 250+ active listings on HerokuIntegrated a property checklist leveraging Redux Toolkit, simplifying rental processes for an enhanced user experienceEmployed React, Sass and Bootstrap for the frontend, in conjunction with Redux for state managementBuilt using Node.js Express Architecture, CORS for authentication. Increased collaborative efficiency by implementing chatbot	