DHRUVIL PATEL

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Education

University of North Carolina at Charlotte — Jan 2021 − May 2022
Master of Science in Computer Science — Charlotte, NC

SRM University — June 2016 − June 2020
Bachelor of Engineering in Computer Science and Engineering — Chennai, India

Technical Skills

Programming Languages: Java, C#, Python, JavaScript, TypeScript, Ruby
Frameworks/Libraries: SpringBoot & Batch, J2EE, .NET, NodeJS, React, Angular, Vue.js, Redux, Rxjs
Web technologies and Testing: HTML, SCSS, REST, JSON, XML, JUnit, Jest, Mockito, Cypress
Databases: MySQL, PostgreSQL, MongoDB, DynamoDB, Redis
Infrastructure: AWS, GCP, EC2, AWS Lambda, CloudFormation, EKS, SQS, S3, CloudWatch
Miscellaneous: Git, Bitbucket, Docker, Kubernetes, Jenkins, Maven, RabbitMQ, Object-oriented programming (OOP), CI/CD, JIRA, Linux, Agile/Scrum

Experience

Amazon.com Services LLC — May 2024 − Present
Software Development Engineer — Seattle, WA
- Streamlined SQL queries and database operations within the Tax Content Manager (TCM) enterprise software, reducing query execution time by 40% and enabling support for distributed jobs.
- Enhanced the TCM Tenant Configuration Website using React and Redux, incorporating features such as customized tenant configurations and block support for record-key panels, reducing manual efforts by 30%.
- Devised a proof of concept for a bulk upload API with multi-region S3 bucket support, leveraging S3 infrastructure, Parsers, and Synthesizers, decreasing processing time by 50% for tax curators importing large datasets.
- Collaborated with cross-functional teams on bug fixes, code refactoring, and integration testing, while providing high-priority support to resolve special customer requests.

eWorld Enterprise Solutions — May 2023 − Apr 2024
Full Stack Developer — Honolulu, HI
- Designed microservices architecture and RESTful services with a focus on scalability and maintainability, significantly enhancing performance and reducing processing time by 80% through automation of various batch jobs for various federal and state benefits.
- Formulated an Auditing and Logging plug-and-play framework using Spring AOP, and engineered a RabbitMQ listener microservice to enrich data processing and system functionality.
- Built the application's front end using TypeScript and Angular 14/Vue, increasing usability metrics by 25% with optimized UI components.
- Implemented secure Java-based authentication flows with JWT, integrated Auth0 services to protect 500+ API endpoints, and crafted efficient SQL queries with caching to minimize overhead.

Amazon.com Services LLC — June 2022 − May 2023
Software Development Engineer — Seattle, WA
- Optimized inventory management tools and services for 600+ Amazon stores, leveraging Spring Boot to manage microservices, resulting in a 30% reduction in product retrieval time through enhanced API compatibility with Amazon Robotics.
- Spearheaded the migration of in-store replenishment tools from AngularJS to React.
- Developed and Deployed AWS lambda functions for mission-critical inventory management operations including synchronizing data between various Amazon services and updating inventory locations in DynamoDB tables.
- Utilized AWS services (RedShift, IAM, SQS, S3, Route 53, EC2, EKS) to resolve high-severity tickets, mitigate SAS risks, and implement a CI/CD pipeline using AWS CDK, achieving full automation for builds and deployments.
- Engineered high-performance dashboards and configured monitors and alarms for key performance metrics, improving system efficiency and stability.

Rebel Softech Pvt Ltd — Nov 2019 − Dec 2020
Software Engineer — Vadodara, India
- Pioneered the enhancement of web portal's backend using Java, Docker, Spring Boot, and MicroServices, boosting container creation efficiency by 30% and slashing application deployment time by 25%.
- Effectively managed complex SQL databases customized for generating diverse reports, Modified queries to reduce report generation time by 25%, ensuring efficient extraction of relevant data for comprehensive and timely reports.

Projects

The Reviewer | Deep Learning using Neural Network
- Headed the development of an NLP system that dynamically updates product recommendations based on real-time review data.
- Introduced a sophisticated sentimental analysis API to review students' and faculty comments on college products and conducted JUnit tests, achieving 95% coverage and reducing bug reports by 30%.

Driver Distraction System | IOT, Python, Machine Learning, Arduino IDE, Raspberry Pi
- Implemented data integration into a Haar-cascade algorithm-driven object detection model, achieving 90% accuracy in identifying distracted or drowsy drivers.

Certifications / Achievements

AWS Academy Graduate 🔗, RedHat RHCSA, Research Papers (IJITEE 🔗 and IJRASET)