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: React, Angular, Vue.js, Redux, Rxjs, Spring (Boot & Batch), J2EE, .NET, NodeJS
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, Hibernate, Maven, RabbitMQ, Kafka, CI/CD, JIRA, Linux, Agile/Scrum

Experience

Amazon.com Services LLC — May 2024 – Present
Software Development Engineer — Seattle, WA
- Worked on the Tax Content Manager (TCM) an enterprise software application supporting numerous tax entities globally, enhancing correspondence features, map data publishing, and PEX job workflow support.
- Maintained the TCM Tenant Configuration Website, incorporating features such as customized configuration for tenants, block support for record-key panel, improving user access management, and reducing data loss incidents by 30%.
- Built a POC for a bulk upload API incorporating S3 infrastructure, Parsers, and Synthesizers with support for multi-region S3 buckets solution.
- Optimized SQL queries and database operations within TCM to improve performance and scalability, reducing query execution time by 40% and enabling support for distributed jobs.
- Collaborated on cross-functional teams to address bug fixes, code refactoring, and integration testing, ensuring high-quality delivery of TCM and its components.

eWorld Enterprise Solutions — May 2023 – Apr 2024
Full Stack Developer — Honolulu, HI
- Demonstrated expertise in designing microservices architecture and RESTful services, prioritizing scalability and maintainability.
- Coordinated development of critical age and packet dispatch batch jobs to enhance performance and reduce manual effort by 80%.
- Spearheaded the design and development of Auditing and Logging plug-and-play framework using Spring AOP.
- Engineered a dedicated RabbitMQ listener microservice that efficiently listens to various queues, implementing mechanisms to enrich incoming messages and enhance data processing and system functionality.
- Established the application's front end using TypeScript and Angular 14/Vue, crafting diverse UI components ensuring high performance and increasing usability metrics by 25%. Crafted intricate SQL queries minimizing overhead through caching.
- Implemented Java-based authentication flow with JWT for user session persistence and security. Integrated Auth0 services to secure 500+ API endpoints and protect user data.

Amazon.com Services LLC — June 2022 – May 2023
Software Development Engineer — Seattle, WA
- Optimized tools and services for inventory management, supporting over 600+ Amazon stores.
- Utilized Spring Boot to manage microservices, spearheaded end-to-end development of applications shipping various code functionalities, and POCs.
- Streamlined functionalities to make Inventory APIs compatible with Amazon Robotics. Reduced product retrieval time by 30% by enhancing service capabilities to disambiguate similar products.
- Created AWS lambdas using Java to trigger the jobs to perform data ingestion of over 1 million records per day.
- Scoped detailed framework migration from AngularJS to React for in-store replenishment associate tool.
- Leveraged a suite of AWS services (including RedShift, IAM, SQS, S3, Route 53, EC2, and EKS) to address high-severity tickets and mitigate SAS risks. Implemented CI/CD pipeline using AWS CDK pipeline and extensively worked for End-to-End automation for all builds and deployments.
- Engineered high-performance pipelines, and dashboards, and implemented load-balancing strategies for various services. Configured key performance metrics to enhance efficiency, including system latency and dynamoDB capacity.

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)