

Dhruvil Patel

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Software Engineer with expertise and experience in developing data-driven resilient microservices and scalable software systems, with focus on high-performing cloud infrastructure solutions, testing automation, and developing complex workflows. I am accomplished in optimizing performance, enhancing reliability, creating dashboards and monitors, as well as crafting user-friendly UIs.

TECHNICAL SKILLS:

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

PROFESSIONAL EXPERIENCE:

Amazon.com Services LLC

Software Development Engineer

Seattle, WA

May 2024 – Present

- 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, block support for record-key panels, and save-down settings 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, integration, and load/stress testing, while providing high-priority support to resolve special customer requests.

eWorld Enterprise Solution

Full Stack Developer

Honolulu, HI

May 2023 - Apr 2024

- 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 multiple batch jobs for various federal, state, and medicaid 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 supporting over 20+ interfaces.
- 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

Software Development Engineer

Seattle, WA

June 2022 - May 2023

- Optimized inventory management tools and services for 600+ Amazon stores, leveraging SpringBoot to manage microservices, resulting 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 implemented CI/CD pipelines 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, reducing system-related issues by 50%.

Rebel Softech Pvt Ltd

Software Developer

Vadodara, India

Nov 2019 - Dec 2020

- Pioneered the enhancement of web portal's backend using Java, Docker, Spring Boot, boosting container creation efficiency by 30% and slashing application deployment time by 25% plus facilitated support for region-wide clients.
- Effectively managed complex SQL databases customized by 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 | Java, Spring Boot, Hibernate, REST API, 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

- Streamlined data integration into a Haar-cascade algorithm-driven object detection model, achieving 90% accuracy in identifying distracted or drowsy drivers.

EDUCATION:

Master of Science, Computer Science

University of North Carolina at Charlotte, NC, USA

Jan 2021 - May 2022

GPA: 4.00

Bachelor of Engineering, Computer Science and Engineering

SRM University, Chennai, India

June 2016 - June 2020

GPA: 3.30