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
Coursework: Algorithm & Data Structures, Advanced Database Design, Application Development, Operating Systems, Big Data Analytics, Machine Learning

SRM University **June 2016 – June 2020**
Bachelor of Engineering in Computer Science and Engineering Chennai, India

Technical Skills

Programming Languages: Java, Kotlin, Python, JavaScript, TypeScript, Ruby
Web technologies and Testing: HTML, CSS, REST, jQuery, JSON, XML, JUnit, Mockito, Vitest
Database and Cloud Technologies: MySQL, MongoDB, PostgreSQL, DynamoDB, Redis, AWS, GCP
Frameworks/Libraries: Vue.js, ReactJS, Angular, Spring (Boot & Batch), J2EE, NodeJS, ES6
Tools: Git, Bitbucket, Postman, Docker, UI/UX, Figma, Tailwind, Storybook, Agile/Scrum, JIRA, Linux

Experience

eWorld Enterprise Solutions **May 2023 – Present**
Software Engineer Honolulu, HI

- Designed and Programmed multiple comprehensive application workflows for the Benefits Eligibility Solutions application, reducing processing time for SNAP, TANF, and federal benefits by 90%.
- Coordinated batch job development to enhance data processing efficiency by 80%, significantly reducing manual effort.
- Established the application's front end using TypeScript and Vue.js, crafting diverse UI components ensuring high performance increasing usability metrics by 25%.
- Wrote intricate SQL queries to bolster system enhancements while minimizing overhead through caching.
- Engaged closely with DHS department and business stakeholders to devise innovative methodologies and incorporate enhancements through incremental releases.
- 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 and implemented tools and services for inventory management used across 589+ Amazon stores.
- Utilized Spring and Google Guice to manage microservices, spearheaded end-to-end development of applications shipping various code functionalities, and optimized backend for 50% higher response time, resolving critical issues.
- Streamlined functionalities to make Inventory APIs compatible with Amazon Robotics. Reduced product retrieval time by 30% by enhancing service capabilities to disambiguate similar products.
- Migrated legacy Angular front-end components to React/Meridian for various business use cases. Leveraged a suite of AWS services (including Lambda, S3, SQS, EC2, and EKS) to address high-severity tickets and mitigate SAS risks.
- Engineered high-performance pipelines, and dashboards, Configured key performance metrics to enhance efficiency, including system latency and DynamoDB capacity, while implementing load balancing strategies.

Projects

The Reviewer | Java, Spring Boot, Hibernate, REST API, Deep Learning using Neural Network

- Headed the development of a Java Spring Boot back-end system to dynamically update product recommendations based on reviews fetching real-time 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%.

GameDigger | jQuery, Node.JS, Express.js, React, MongoDB

- Led the development of a full-stack web application using the MERN stack for the gaming community at UNC Charlotte, enabling users to share servers of nostalgic games with peer-to-peer interactive chat capabilities.
- Established a scalable and responsive website with real-time chat functionality, resulting in a 30% increase in gaming partnerships and a 40% boost in user engagement metrics.

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)