

Dhruvil Patel

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TECHNICAL SKILLS:

- **Languages:** Java, C, Kotlin, SQL, JavaScript, TypeScript
- **Web technologies:** HTML, CSS, REST, JSP, jQuery, SOAP, Swagger, JWT
- **Databases and Cloud Technologies:** MySQL, MongoDB, PostgreSQL, DynamoDB, Redis, AWS, GCP
- **Frameworks/Libraries:** ReactJS, Angular 8, Vue.js, Spring Boot, NodeJS, Bootstrap, JUnit, REST, Redux, Hooks
- **Other Technologies:** Git, BitBucket, JIRA, Jenkins, RabbitMQ, Docker, JUnit, Jest, Vitest, Selenium, Agile/Scrum, Google Guice, CI/CD

PROFESSIONAL EXPERIENCE:

Software Engineer, eWorld Enterprise Solutions

June 2023 - Present

- Contributed to the development of the Benefits Eligibility Solutions application, effectively reducing processing time for SNAP, TANF, and federal benefits.
- Implemented intricate business logic and Java design patterns to ensure comprehensive functionality, enhance performance, and optimize memory usage within the application architecture. Orchestrated the development of multiple batch jobs and interfaces, resulting in a notable 80% increase in seamless data processing and system integration efficiency.
- Developed the application's front-end using Vue.js, crafting diverse UI components to elevate the user experience. Engaged proactively with DHS department and business stakeholders to devise innovative methodologies and incorporate enhancements through incremental releases.
- Crafted and implemented the authentication flow in Java, utilizing JWT for access and refresh tokens to enable persistent user sessions and thwart XSS attacks. Additionally, integrated Auth0 authentication and authorization services to secure over 500 API endpoints, fortifying the application against security threats and protecting user data.

Software Development Engineer, Amazon.com Services LLC

June 2022 - May 2023

- Optimized and implemented tools and services for Inventory Health Management used across hundreds of Amazon stores.
- Utilized Spring and Google Guice to manage microservices, spearheaded end-to-end development of applications, and optimized backend for 50% higher response time, resolving critical issues.
- Designed and implemented 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.
- As an SDE on the team, I leveraged various AWS services(e.g. Redshift, QuickSight, Lambda, S3, SNS, Glue, SageMaker) and resolved high severity tickets, SAS, and shepherd risks, and updated the Operational Excellence sheets during on-call.
- Enhanced service efficiency by configuring key performance metric monitors like latency and DynamoDB capacity. Developed pipelines and dashboards to support operations and research.

PROJECTS:

The Reviewer | Deep Learning using Neural Network, Android studio

- Implemented sentimental analysis API using Deep Learning (Neural Networks) to review students' and faculty comments on college products.
- Integrated sentiment analysis into an Android app using Java, Firebase, and Android Studio. Collaborated with the university goods team, boosting positively commented goods by 20%.

GameDigger | HTML5, CSS3, JavaScript, jQuery, NodeJS, Express.js, MongoDB, Mongoose

- Developed a web portal for gamers community at UNC Charlotte to share servers of nostalgic games with peer-to-peer dynamic chat capabilities.
- Implemented scalable and responsive website with large-scale MongoDB solution using Node.JS and REST APIs with support for user authentication and authorization to ensure data security.

Driver Distraction System | IOT, Python, Machine Learning, Arduino IDE, Raspberry Pi

- Engineered a smart device employing Arduino to monitor drivers' pulse, facial expressions, eye movement, and yawns. Integrated data into a Haar-cascade algorithm-based object detection model to detect distracted or drowsy drivers.

EDUCATION:

Master of Science, Computer Science

Jan 2021 - May 2022

University of North Carolina at Charlotte, NC, USA.

GPA: 4.00

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

Bachelor of Engineering, Computer Science and Engineering

June 2016 - June 2020

SRM University, Chennai, India.

GPA: 3.20

Coursework: Object Oriented Design, Operating Systems, Data Mining and Analytics, Computer Networks, Artificial Intelligence, Cloud Computing, Linux Internals, Compiler Design.