Dhruv Ronak Patel
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EDUCATION

The University of Texas at Dallas May 2025
Master of Science, Computer Software Engineering GPA 3.72

LDRP-ITR, Gujarat, India May 2023
Bachelor of Engineering, Computer Engineering GPA 3.25

TECHNICAL SKILLS

Programming Languages: Java, J2EE, Python, C/C++, SQL, HTML, CSS, JavaScript, Shell Scripting, React-JS, C#, Next-JS
Developer Tools: Spring Boot, Hibernate, Java Spring Framework, Flask, Django, MySQL, PostgreSQL, ASP.NET, WPF, Docker
Web Services: REST API, AWS, Web-Socket

WORK EXPERIENCE

ABH Manufacturing, Chicago August 2024 – December 2024
Software Engineering Intern

- Developed full-stack web applications using JavaScript, React.js, and a C# backend, applying Object-Oriented Programming (OOP) principles to improve internal business operations, enhance scalability, and streamline data management processes
- Building a serverless web application with Next.js and GraphQL, utilizing Docker for containerization to ensure scalability and seamless cloud deployment. Used Git/GitHub for version control and integrating CI/CD pipelines for efficient deployment
- Managed SQL Server databases, delivering technical support for data retrieval, reporting, and optimizing workflows to enhance business processes and decision-making.

Infolabz Private Limited January 2023 – June 2023
Software Engineering Intern

- Enhanced local government licensing processes by developing a Java Spring Framework-based web application utilizing Multithreaded Programming to handle concurrent tasks, reducing processing times by 20% through improved MVC architecture and seamless RESTful API integration.
- Implemented custom Alexa skills using Automated over 200 unit and integration tests using the Spring Test framework, maintaining a 99% pass rate on builds, significantly boosting code reliability and deployment readiness.
- Developed dynamic web applications with Java Servlets and JSP, incorporating IPC Communication Frameworks to facilitate efficient inter-process communication and real-time data processing, resulting in a 40% increase in user engagement.

Softvan Private Limited June 2022 – November 2022
Software Engineering Intern

- Contributed to the development of an HR automation system using Java and J2EE technologies, streamlining HR workflows and reducing processing times by 25% through optimized backend processes and enhanced integration capabilities.
- Developed custom Alexa skills with the Alexa Skills Kit (ASK), enabling dynamic, personalized voice responses by integrating data from AWS S3, significantly improving user engagement through tailored interactions.
- Collaborated with HR teams in an agile development environment, effectively using communication skills to align technical solutions with HR operational needs, continuously refining application features to meet changing business requirements.

ACADEMIC PROJECTS

KWIC Finder, UTD August 2023 – December 2023

- Developed a Java-based web search engine using the KWIC (Key Word In Context) methodology, enhancing search functionality and user experience by efficiently indexing and retrieving results from a SQL database.
- Optimized query performance and data retrieval through the implementation of SQL indexing and query optimization techniques, improving the search engine's speed and accuracy.

Career Catalyst: Advanced Placement System, LDRP June 2022 – November 2022

- Developed a J2EE-based Placement Cell Management System using Spring Boot and Hibernate, optimizing backend performance through Multithreaded Programming for concurrent data processing.
- Implemented MVC architecture and RESTful APIs, integrating SQL databases for scalable data management and improving query efficiency through Object-Oriented Programming (OOP) principles.

Waste Management System, LDRP January 2022 – April 2022

- Developed a Flask and Django web application that boosted user engagement by 50%, enhancing urban sanitation management with improved accessibility and responsiveness
- Implemented the LeNet CNN model, achieving 95% accuracy in classifying images as 'garbage-filled' or 'clean'. This application of deep learning significantly improved the efficiency of sanitation operations by automating visual assessments