Jay Dave

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Summary

1. Results-driven Full-stack Software Engineer with over 3.5+ years of experience in developing scalable, high-performance web applications. Proficient in **Java**, **Python**, **Django**, **React**, **Node.js**, **Spring Boot**, **Hibernate** and cloud solutions like **AWS**. Skilled in building dynamic front-end interfaces and designing scalable backend services. Strong expertise in optimizing database performance, including query optimization, indexing, and scaling systems to handle large datasets.

2. Notable achievements include reducing database load times by 30%, improving query performance, scaling systems from 50K to 300K daily calls, and successfully migrating over **3.5 million** product images to a centralized, microservice-based storage system, reducing operational costs by 15%.

3. Proficient in **DevOps** environments, optimizing **Continuous Delivery pipelines** and infrastructure changes with tools like **Kubernetes**, and **Docker**, ensuring efficient deployment and management of code using **Git and Jenkins.** Experienced in version control using Git, managing code repositories effectively to ensure code integrity, and skilled in using **SVN** and **CVS** for organizing versions and configurations.

4. Strong background in software testing, performing Unit and Integration testing, and creating test cases for web applications using **JUnit** and **Python's unittest framework** to ensure high-quality, reliable software.

SKILLS

Programming: Java, Python, C/C++, TypeScript, JavaScript, SQL, GraphQL, .NET
Framework & Libraries: Spring Boot, Node.js, Django, REST API, Microservices, Hibernate, API, React, Angular, jQuery
Database Management: SQL, MySQL, PostgreSQL, MongoDB, Redis, Firebase
Software & Tools: Jupyter, Git, Postman, Visual Studio, IntelliJ, Jenkins, Docker, Kubernetes, Nginx, Jira
Cloud technologies: AWS EC2, AWS Lambda
Development Practices: Agile methodologies, Software testing, Debugging techniques, Collaboration skills

EXPERIENCE

Bright Mind Enrichment and Schooling   New York, NY
Software Engineer   Jul 2024 - Present
- Designed and implemented scalable backend services using **Java Spring Boot** and **Hibernate**, building robust **RESTful APIs** and integrating **GraphQL** to streamline data fetching, resulting in improved performance and reduced response times by 25%.
- Developed dynamic and responsive front-end interfaces with **React.js**, enhancing user interactivity and engagement, leading to a 30% increase in user retention and improving cross-device compatibility.
- Integrated real-time data updates with **Firebase** and optimized backend queries, ensuring fast data synchronization and reduced page load times, creating a more seamless user experience across web and mobile platforms.

Flash Tech Company   Gujarat, India
Backend Developer Level 2   Jan 2022 - Aug 2022
- Collaborated with cross-functional teams to design scalable solutions for an e-commerce platform. Used Spring Boot and Node.js for the backend, and **jQuery, JSP, Handlebars**, and React for the frontend to enhance performance and user experience.
- Led the transition to a **microservice architecture**, designing scalable interfaces for order processing, inventory management, and customer data workflows. This improved system efficiency by 40%, **reduced downtime by 25%** and ensured long-term maintainability.
- Implemented a **scheduled task** for automating the parsing and updating of product catalogues using **Java**, **Hibernate**, and custom scheduling mechanisms, improving **data accuracy by 30%** and boosting product visibility, contributing to a 15% increase in overall sales.
- Developed **scalable backend services**, performed QA testing, and utilized a cloud-based platform **New Relic** for performance monitoring and **Sumo Logic** for log analysis to identify and resolve bottlenecks impacting over 3,000 online shoppers.

Flash Tech Company   **Gujarat, India**
Backend Developer   **Jan 2021 - Dec 2021**

- Led the migration of more than **3.5 million product images** and order records from the primary database to a centralized, microservice-based document storage system, **reducing database size by 30%** and cutting operational costs by 15%.
- Contributed to integrating cross-system customer notes, enabling unified visibility for support teams and account managers. Delivered a phased solution using **Universal Login** and **Nginx routing**, enhancing customer support workflows and improving search and reporting functionality.
- Optimized SQL performance for large-scale search queries by **parameterizing queries** and enhancing query plan **cache reuse**, leading to a 20% improvement in CPU and memory efficiency for the e-commerce platform's **search functionality**.

Awaaz De Informatics Ltd   **Gujarat, India**
Junior Software Engineer   **Jan 2020 - Dec 2020**

- Developed multilingual manuals for sending pre-recorded voice calls and SMS, supporting 60 use cases in 10+ languages with dynamic language configuration and text-to-speech integration. Optimized system performance with **horizontal scaling**, **Celery**, and **RabbitMQ**, reducing latency under peak loads.
- Enhanced API efficiency by implementing **batch processing** for voice call requests, reducing overhead and processing time. Optimized database performance with **indexed fields** and connection pooling, cutting query execution time by **30%** and scaling daily call volume from 50K to 300K **without increasing infrastructure costs.**

ISRO - Indian Space Research Organisation   **Gujarat, India**
Software Engineer Intern   **May 2019 - Aug 2019**

- Developed the graphical user interface (**GUI**) for the Microwave Data Analysis Software (MIDAS) using **Java**, **MapDB**, and **H2DB**.
- Supported image compression techniques, and digital image processing and displayed graphs for analyzing satellite data, contributing to applications like glacier classification and oil spill detection.

EDUCATION

Stevens Institute of Technology
Master of Science, Computer Software Engineering   Sep 2022 - May 2024
Hoboken, NJ, USA

- GPA: 3.98
- Courses: Agile Methods for Software Development, Software Requirements Analysis and Engineering, Software Architecture and Component-Based Design, Cost Estimation and Metrics & Software Testing, Quality Assurance, and Maintenance

Dhirubhai Ambani Institute of Information and Communication Technology
Bachelor of Technology, Information and Communication Technology   Aug 2016 - Jul 2020
Gandhinagar, Gujarat, India

ACADEMIC PROJECT

OpenAI APIs, SonarCloud
InsightHub: AI-Powered Video Insights and Interactive Learning Platform   Jan 2024 - May 2024

- Led the complete project lifecycle for InsightHub, from conception to implementation, utilizing HTML, CSS, JavaScript, React.js, Node.js, Express.js, and **MongoDB** to deliver a dynamic and user-friendly application.
- Integrated **YouTube Captions Scraper** and **OpenAI APIs**, enabling customized summary generation and interactive question formats, resulting in a 40% increase in user engagement.
- Implemented a **CI/CD pipeline** to automate the deployment process via Github Actions making deployment 30% faster.