Divya Kulkarni

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Summary

Software Engineer with 3+ years of experience in backend development, microservices, and RESTful APIs. Skilled in Java, Spring Boot, Hibernate, Node.js, and SQL/NoSQL databases, with experience in real-time data processing, EMR integration, and deep learning projects. Proficient in Agile methodologies, Jira, Notion, and Slack, delivering scalable and high-performance solutions in financial and healthcare domains.

Skills

- **Programming Languages:** Java, Python, JavaScript, TypeScript, SQL, HTML5, CSS
- **Frameworks & Libraries**: React, Spring Boot, Hibernate, Spring Batch, Node.js, Express, FastAPI
- **Databases:** MySQL, PostgreSQL, MongoDB
- **APIs & Security:** RESTful APIs, JWT, OAuth 2.0, FHIR/HL7 integration
- **Data Analysis & ML Tools:** TensorFlow, Scikit-learn, Numpy, Pandas, Matplotlib, Anaconda
- **Project Management & Collaboration:** Agile methodologies, Scrum, Kanban, Jira, Notion, Slack
- **Version Control & Tools:** Git, Postman

Work Experience

Northern Trust, CA, USA   **Feb 2025 - Present**
Software Engineer

- Built and optimized RESTful APIs with Spring Boot and Hibernate, reducing response times by 25% and enabling integration with MySQL and MongoDB.
- Developed Spring Batch jobs for daily financial reconciliations and NAV calculations, saving 20+ manual hours weekly.
- Designed backend modules supporting 2x increase in transaction volume, improving system modularity and scalability.
- Integrated real-time data flows between internal and external systems, enabling timely reporting of 50k+ daily transactions.
- Optimized SQL queries and backend logic, reducing database load by 30% and improving system throughput.
- Implemented JWT-based authentication, securing access for all users of financial modules.

Matt Young Media, AZ, USA   **Aug 2023 - Nov 2023**
Software Engineer intern

- Built the Social Trust PR platform with React, Node.js, Express, and TypeScript, integrating REST APIs into interactive and user-friendly front-end components.
- Designed and Developed a 7-step article submission workflow as a dynamic single pop-up, cutting development time from 3 weeks to 7 days and improving editor efficiency.
- Implemented Role-Based Access Control (RBAC) to enforce least-privilege principles, reducing errors and strengthening content security.
- Automated Slack notifications for user onboarding through webhook integration, saving ~60% manual effort and improving operational transparency.
- Developed Google OAuth based authentication to enable secure access for 200+ active clients.

CitiusTech, KA, India   **Aug 2020 - Aug 2022**
Software Engineer

- Developed and maintained Spring Boot microservices serving 50,000+ healthcare users monthly with 95% uptime.
- Designed and implemented FHIR/HL7-compliant APIs for EMR interoperability, processing 20k+ patient records daily.
- Built real-time data processing workflows in Java and Node.js, improving throughput by 15% under peak load.
- Optimized SQL queries and database schemas, enhancing performance by 25% for high-traffic modules.
- Developed backend logic for ETL services, reducing healthcare data transformation times by 20%.
- Implemented robust error handling and logging, ensuring consistent and reliable backend operations.
- Integrated third-party APIs, enabling secure and accurate healthcare data exchange.
- Implemented asynchronous processing in Java microservices to reduce EMR update latency by 30%.

Education

Master of Science in Information Systems	**Sep 2022 - Dec 2024**
Northeastern University, San Jose, CA, United States	GPA: 3.9/4.0
Bachelor of Science in Information Science	**Aug 2017 - Aug 2021**
SDMCET, Dharwad, Karnataka, India	GPA: 3.8/4.0

Projects

Handwriting Recognition System (Anaconda | Scikit | Matplotlib | Tensorflow | Numpy | Pandas)
- Built a handwriting recognition system using image processing to detect forgery exam scripts.
- Enabled evaluation automation for over 100 students by training convolutional models to assess handwriting features.

Blood Donation Management System (HTML5 | CSS | Spring | MySQL)
- Developed a portal for 500+ students and staff to register via QR code.
- Enabled Excel report exports and donor monitoring in coordination with the Indian Red Cross Society.

NASA Astronomy Picture of the Day (Google OAuth 2.0 | NASA APOD API | React | Node | MongoDB) link
- Built a single-page application with ReactJS and NodeJS that integrates with NASA's APOD API to fetch and display the Astronomy Picture of the Day.
- Implemented Google OAuth 2.0 authentication and deployed the application on Vercel with MongoDB for data storage.

Certifications

- HackerRank Certified Java Developer link
- HackerRank Certified Problem Solving link
- Google Prompting Essentials Specialization by Coursera (in progress)