Divya Kulkarni

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TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, Python, SQL, HTML5, CSS
Databases: MySQL, PostgreSQL, MongoDB
Frameworks: Spring Boot, Hibernate, Spring Batch, Node.js, Express, React.js, Flask, FastAPI
Cloud & DevOps: AWS, Docker, Kubernetes, Jenkins, Maven, TravisCI, Google Cloud Platform
Tools & APIs: RESTful APIs, JWT, OAuth2.0, Elasticsearch, Postman, Git
Libraries & Data: pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow, Keras

PROFESSIONAL EXPERIENCE

Northern Trust – Fremont, CA, USA   Feb 2025 – Present
Software Engineer   *SpringBoot, Java, MySQL, MongoDB*
- Improved internal finance API performance by optimizing database queries and adding indexes, reducing response time by 25% and preventing dashboard and reporting delays.
- Secured internal APIs for third-party access by implementing JWT-based stateless authentication with Spring Security, token validation/refresh reducing unauthorized access and enabling scalable service growth.
- Automated daily financial reconciliations and NAV calculations with Spring Batch, processing transactions in steps and handling failures automatically, saving 20+ hours/week and producing accurate reports.

Matt Young Media – Scottsdale, AZ, USA   Aug 2023 – Nov 2023
Software Engineer Intern   *React, Node.js, TypeScript, REST APIs, Google OAuth*
- Built the Social Trust PR platform with React, Node.js, and TypeScript, integrating REST APIs and Google OAuth for secure access for 200+ clients.
- Designed and developed a 7-step article submission workflow as a single dynamic pop-up, cutting development time from 3 weeks to 7 days and improving editor efficiency.
- Implemented Role-Based Access Control (RBAC) by adding database role flags and token-based authorization to enforce least-privilege access, reduce errors, and improve platform security and maintainability.
- Automated real-time user onboarding notifications by integrating Slack webhooks with Customer.io, leveraging backend event triggers, reducing 60% manual effort and ensuring instant leadership visibility.

CitiusTech – Pune, MH, India   Aug 2020 – Aug 2022
Software Engineer   *Java, Spring Boot, Docker, Kubernetes, FHIR APIs, Microservices*
- Led backend development for a healthcare analytics platform with 50,000+ monthly users, designing 15+ RESTful services in Spring Boot with 95% uptime and robust error handling to ensure reliability under peak loads.
- Integrated FHIR-compliant APIs for secure Electronic Medical Records (EMR) data sharing, implementing OAuth 2.0 and encryption mechanisms to ensure HIPAA compliance and secure patient data exchange across systems.
- Conducted thorough code reviews, refactoring, and performance optimizations for Java and Spring Boot services, improving response times, reducing technical debt, and accelerating release cycles by 30%.
- Developed an internal code-generation library to auto-generate Java classes from XML specifications, enabling React frontend teams to update UI features without backend recompilation, reducing feature update time by 50% and improving developer efficiency.

PROJECTS

Handwriting Recognition System | *Python, TensorFlow, Keras, NumPy, Pandas, Matplotlib*
- Built a CNN/RNN-based system to detect and classify handwritten characters, automating evaluation for 100+ exam scripts. Implemented end-to-end image preprocessing, segmentation, and feature extraction pipelines, achieving high accuracy and lightweight deployment.

NASA Astronomy Picture of the Day App | *MERN stack, Google OAuth 2.0, NASA APOD API, Vercel*
- Developed a full-stack web app integrating NASA APOD API with secure Google OAuth authentication.
- Built backend services with Node.js and MongoDB. Deployed the app on Vercel for responsive, high-availability access.

EDUCATION

Northeastern University, San Jose, CA, USA   Dec 2024
Master of Science in Information Systems   *3.9/4.0*