Pradhyuman Yadav

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Summary:

Innovative and results-driven Software Engineer with extensive experience in designing, developing, and optimizing robust solutions for diverse industries. Proficient in Java, Python, and SQL, with expertise in frameworks such as Spring Boot, Quarkus, and React.js. Strong foundation in Data Structures & Algorithms, Database Systems, and Cloud Computing, ensuring efficient data handling, scalable infrastructure, and secure deployments. Proven track record of improving system performance, reducing downtime, and enhancing data visualization through comprehensive solutions using Docker, Kubernetes, AWS, and CI/CD pipelines. Adept in collaborating with cross-functional teams, driving innovation, and delivering impactful solutions to complex business challenges.

Education:

M.S in Computer Science The George Washington University, Washington, DC - **GPA: 3.8**	May 2025
B Tech in Engineering Manipal Institute of Technology, Manipal, India - **GPA: 3.4**	May 2022

Skills:

Category	Rating out of 5	Technologies/Tools
Programming Languages	5	Python, Java, JavaScript, Node.js, C++, SQL, PostgreSQL, MySQL, MongoDB, Redis, GraphQL
Full-stack (Frontend+Backend Tools)	4.7, 5.0	React.js, Tailwind CSS, Next.js, TypeScript, Redux, Webpack, Jest, Cypress, Spring Boot, Flask, Quarkus, Express.js, RESTful APIs, Microservices, gRPC, API Gateways
Cloud & Infrastructure	4.8	Docker, Kubernetes, Jenkins, AWS (EC2, S3, Lambda, API Gateway, DynamoDB, CloudFormation, IAM), CI/CD Pipelines, Infrastructure as Code (IaC), Git, Nginx, Linux/Shell Scripting, Prometheus, Grafana, ELK Stack (Elasticsearch, Logstash, Kibana), Message Queues (Kafka)
Architecture & Design	5	Design Patterns, SOLID Principles, System Design, Scalability, Performance Optimization

Professional Experience:

Software Engineer, Optum   **Jul 2022 - Aug 2023**

- Enhanced backend service performance by 35% by designing and implementing efficient data-handling solutions using Java, Spring Boot, and Quarkus. Optimized code logic to improve data retrieval speed and system responsiveness, incorporating concepts from Data Structures & Algorithms and Database Systems.
- Enabled faster stakeholder decision-making by developing interactive dashboards and websites using React and Flask, improving data visualization for key business metrics.
- Reduced data processing delays by 40% by optimizing PostgreSQL queries and refining data pipelines, improving database efficiency, accelerating report generation, and leveraging knowledge in Database Systems.
- Improved system reliability and maintenance by deploying scalable applications with Docker and Jenkins, minimizing downtime and simplifying deployment procedures by applying Cloud Computing principles.

Software Engineer, M. K. Contractor   **May 2018 - May 2022**

- Increased data accessibility by 40% across departments by developing a centralized data management system using Java and Spring Boot, seamlessly integrating project site, procurement, and finance data with optimized Database Systems design.
- Minimized system downtime by implementing automated monitoring and alerting solutions with Kubernetes and Prometheus, proactively identifying and resolving performance issues through Cloud Computing techniques.
- Reduced IT-related downtime by 30% by standardizing IT infrastructure, including servers and networking, improving system stability and reliability.
- Enhanced software development efficiency by implementing Git version control and Jenkins CI/CD pipelines, reducing deployment errors by 50% and accelerating delivery timelines through improved Data Structures & Algorithms practices.

Projects:

ThePK.in, USA, thepk.in   **Jan 2025 - Present**

- Attracted 1.5k unique users and 50K+ visits by developing a web platform using Next.js, Tailwind CSS, TypeScript, and Supabase, featuring interactive tools like Temp Email Generator and Home Server Stats.
- Automated deployments and updates using Docker, Kubernetes, and Jenkins CI/CD pipelines, ensuring seamless maintenance and performance. And secured reliable public access with minimal downtime via a configured Cloudflare reverse proxy.

Video Streaming Platform, USA, GitHub   **Oct 2024 - Present**

- Designed and implemented an efficient video streaming platform using Next.js, Node.js microservices, Docker, and AWS, enabling seamless video uploading and management.

Trading with ML, USA, GitHub   **Dec 2024 - Jan 2025**

- Developed a Python-based trading model leveraging Machine Learning and Computer Vision algorithms, achieving 85% accuracy in predicting market movements and executing trades.

JobMatch Automator, USA   **Jun 2024 - Jul 2024**

- Automated the job application process using Python and Selenium, integrating Discord alerts for real-time updates, and enhancing functionality using LLM and Computer Vision techniques.