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 portfolio-resume-sahil.vercel.app


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Portfolio

SUMMARY

Dynamic **Senior Java Developer** and **Fullstack Engineer** with over 6 years of experience in **Java full stack and Big Data Analytics**, cloud infrastructure, and scalable system design. Adept at leading cross-functional teams to deliver innovative, data-driven solutions that enhance business performance and user experience. Expertise in leveraging **AWS**, **Kafka**, and **Generative AI** to drive automation and efficiency. Committed to fostering a collaborative environment and driving continuous improvement through strategic planning and technical excellence.

EXPERIENCE

Persistent Systems Limited <i>Engineer Lead</i>	Aug 2023 – Aug 2024 <i>India</i>
<ul style="list-style-type: none">Architected and optimized front-end interfaces using React (18+), JavaScript, and Bootstrap, applying SOLID principles and design patterns to enhance maintainability and scalability, reducing page load times by 85%.Streamlined back-end microservices with Spring Boot, Node.js, and Hibernate, integrating AWS and Kafka for robust data ingestion and real-time processing, ensuring high availability and fault tolerance.Implemented CI/CD pipelines using Jenkins, automating deployments with Docker and Kubernetes, accelerating release velocity by 80% and reducing deployment errors by 90%.Utilized monitoring tools like Splunk and profilers such as VM Profiler and JProfiler to ensure optimal performance and proactive issue resolution, decreasing server downtime by 75%.Key Impact: Leveraged Generative AI (AWS toolkit, Microsoft Copilot) for automated debugging and algorithm analysis, cutting bug resolution time by 65%.	
Capgemini <i>Professional 2</i>	Oct 2021 – May 2023 <i>India</i>
<ul style="list-style-type: none">Served as a systems architect in an agile environment, applying design patterns and SOLID principles to develop scalable systems, minimizing technical debt and enhancing code reusability.Implemented Spring Boot and ReactJS within Docker workflows, integrating with Kubernetes for automated scaling and load balancing, reducing cross-OS discrepancies by 80% and speeding deployment cycles by 90%.Migrated applications to AWS and Azure, utilizing Kafka for real-time data streaming and Splunk for monitoring, achieving a 75% cost reduction and enhancing system observability.Developed and maintained CI/CD pipelines with Jenkins, integrating automated testing and deployment processes to improve reliability by 80% and support continuous delivery of high-quality software.	
Kent Ro <i>Senior Analyst - Contract</i>	Nov 2020 – Apr 2021 <i>India</i>
<ul style="list-style-type: none">Led the development of a data catalog and lineage system using Neo4j, Java, and Docker, integrating Kafka and AWS for scalable infrastructure, enhancing data retrieval and integrity.Optimized front-end modules with real-time analytics and VM Profiler, improving page responsiveness by 85% and ensuring a seamless user experience.Managed AWS-based systems, integrating MySQL, MongoDB, RabbitMQ, and Kafka to establish reliable data pipelines and efficient data flow across services.Automated system administration tasks using PowerShell and Shell scripting, reducing manual processes by 80% through robust CI/CD pipelines with Jenkins.	
Cognizant <i>Programmer Analyst - Big Data Developer</i>	Dec 2018 – Dec 2019 <i>India</i>
<ul style="list-style-type: none">Enhanced a high-traffic BFSI application by optimizing front-end (HTML5, JavaScript) and back-end (Java, Spring Boot) using design patterns and SOLID principles, increasing throughput by 85%.Developed data-centric applications with Hadoop, Hive, and Spark, integrating Kafka for real-time processing, speeding data handling by 95%.Designed and implemented RESTful APIs using Java and Node.js, integrating with MySQL and utilizing Jenkins for automated deployments, reducing response latencies by 60%.Ensured data integrity through algorithmic big data validations and used Splunk for monitoring, achieving near-zero data discrepancies and maintaining compliance standards.	
Wipro <i>Associate Analyst - SQL Database Administrator</i>	May 2017 – May 2018 <i>India</i>
<ul style="list-style-type: none">Managed and administered SQL databases, ensuring high availability, performance, and security for enterprise-grade systems.Performed database design, development, and optimization using SQL Server, enhancing query performance by 70% through indexing and query tuning.Implemented robust backup and recovery strategies, reducing data loss risks and ensuring business continuity with a 99.9% uptime.Monitored database performance using tools like SQL Server Profiler and Splunk, proactively identifying and resolving bottlenecks to maintain optimal performance.Automated routine DBA tasks using PowerShell and T-SQL scripts, increasing operational efficiency by 60% and reducing manual intervention.Collaborated with development teams to design and implement database schemas, ensuring data integrity and supporting application scalability.Managed data migration projects, seamlessly transferring data between environments with zero downtime and maintaining data accuracy.	

KEY PROJECTS

COVID Data Analysis <i>Lead Developer</i> <ul style="list-style-type: none">Extracted live COVID-19 data from Worldometer using Pandas (Python) and Java, capturing real-time case information with 85%+ improved accuracy.Performed advanced data organization (country-wise, region-wise), generating tables and visualizations (Matplotlib) that guided government vaccine strategies.Enhanced forecasting models by 80% using a Java-based approach for big data analytics, delivering critical insights to public health institutions.	Apr 2021 – Dec 2022
Zyla Clothing Startup <i>Fullstack Consultant</i> <ul style="list-style-type: none">Developed an e-commerce platform using Node.js, Express, and React, increasing sales conversion by 75% through UI/UX optimizations.Leveraged MongoDB Atlas for scalable product catalogs, achieving 80% faster load times and a 90% improvement in concurrency handling.	Nov 2022 – Present
Astra Crypto Coin <i>Founder & Lead Dev</i> <ul style="list-style-type: none">Launched an ERC-20 token with advanced staking, boosting daily active users by 85%.Deployed Solidity smart contracts with Truffle & Hardhat, achieving 85% lower transaction fees via optimized gas usage.	Mar 2022 – Present
Projects on Github <i>Contributor</i> <ul style="list-style-type: none">GitHub: https://github.com/sahil-lab	2018 – 2025

EDUCATION

Lovely Professional University (LPU) <i>B.Tech. in Electronics and Communication Engineering with Minor in Android Development</i>	2018 <i>India</i>
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CERTIFICATIONS

- Google Advanced Data Analytics** (2023) **Google Business Intelligence** (2023)
- Data Analytics with Jupyter IDE** - Free Code Camp (2022)
- Big Data** - Data Air (2019, Hadoop 2.x)

ACHIEVEMENTS & HONORS

- TechGig Challenge Winner:** Surpassed 1000+ participants with **90%+** superior algorithmic performance.
- PCB Designing Competition:** Secured 1st prize for a Solar Mobile Charger, increasing energy efficiency by 80%.
- Crypto Token Creation:** Scaled coin to \$42K valuation on launch day; launched **NFT** collection on OpenSea.
- Outstanding Collaboration:** Recognized by offshore clients at Capgemini for a cross-team product release yielding 80% faster deployment cycles.

SKILLS

- **Backend / Big Data:** Java, Spring Boot, Node.js, Hadoop, Spark, Kafka, SQL, Neo4j, IBM Mainframe
- **Frontend:** ReactJS, Angular (10+), TypeScript, HTML5, CSS, Redux, React 3js fiber, React drei, Next.js, Nest.js
- **Cloud & DevOps:** AWS, Azure, Docker, Kubernetes, Jenkins, CI/CD, Git, Splunk, JProfiler, VM Profiler
- **AI/ML:** TensorFlow, PyTorch, OpenAI APIs, Scikit-learn, Vertex AI, Basic NLP
- **Soft Skills:** Agile/Scrum, Stakeholder Management, Team Leadership, Communication, Problem-Solving

PORTFOLIO & PUBLICATIONS

- Portfolio:** portfolio-resume-sahil.vercel.app
- GitHub:** <https://github.com/sahil-lab>
- NFT Collection:** opensea.io/collection/brainmine-genesis
- Publications on Medium:** <https://medium.com/@sahilupadhyay.work>
 - Innovative Materials:** Self-Cleaning, Color-Changing, Temperature-Regulating Fabric; Ultra-Refractory Materials for Nuclear Protection.
 - Advanced Technologies:** Alien Intervention & Simulated Reality; Achieving Human Teleportation Through 3D Organ Bioprinting; Quantum-Enhanced Machine Learning for Teleportation.
 - Sustainable Solutions:** Sustainable Architecture with Recycled Rubber; Designing a Geoid Shield.
 - Speculative Concepts:** The Puncture Theory; Dimensional Neuroscience & NeuralSignalProcessor; ChronoTunnel & DarkCore Resonance.

LANGUAGES

- English:** Fluent
- Hindi:** Native