ABHIGYAN SINHA
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SUMMARY

Experienced Software Engineer with expertise in designing and scaling enterprise-grade systems across cloud, data, and AI domains. Skilled in solutioning, architecture, and end-to-end delivery of distributed systems, with a strong ability to solve complex engineering challenges in fast-paced environments.

TECHNICAL SKILLS
- Languages: C#, Java, Python, Node.js, TypeScript, Express.js, HTML, CSS, JavaScript
- Databases: SQL, DynamoDB, MongoDB, ChromaDB, Snowflake, MariaDB
- Frameworks & Cloud: Spring Boot (REST APIs, Security, JPA, Microservices), Angular, .NET Core, AWS (EC2, SQS, Kinesis, DynamoDB, QuickSight), Azure (ADF, Databricks), Kafka
- DevOps & Tools: Docker, Kubernetes, Jenkins, GitLab, Visual Studio, IntelliJ, Postman, Eclipse, Jira, SSIS, Grafana, InfluxDB
- ML/AI: OpenAI APIs, LLama, LangChain, Retrieval Augmented Generation (RAG), PySpark

WORK EXPERIENCE

Charter Communications (Spectrum Mobile) | FullStack Software Engineer | Denver   Oct 2023- Current
Java, SpringBoot, Typescript, Angular, AWS, Jenkins, Python, Gitlab, EC2, DynamoDB, Docker
- Reduced regression testing time by 50% by architecting a script less automation framework in Spring Boot that streamlined workflows and enabled faster release cycles.
- Built a generic UI automation platform using Angular and TypeScript, enabling onboarding of multiple internal applications and unifying test case execution.
- Optimized AWS service interactions (DynamoDB, SQS, Lambda, EC2) through caching and efficient API design, lowering infrastructure costs.
- Designed and deployed data pipelines to capture testing KPIs, leveraging AWS QuickSight dashboards to guide leadership in cost optimization decisions.
- Containerized backend/frontend services with Docker and orchestrated deployments using Kubernetes, ensuring high availability and scalability.

Amazon Web Services (*Kinesis*) | Software Engineer | Seattle   Nov 2022 – Sept 2023
Java, SpringBoot, Ruby, AWS, Linux, AWS Kinesis, DynamoDB, EC2
- Designed and implemented a solution to migrate and segregate traffic generating from internal AWS services via VPC to a dedicated Kinesis NLB set, ensuring external customer traffic remains unaffected by internal service load.
- Automated multi-region deployments of Kinesis using infrastructure-as-code, accelerating region builds and reducing manual intervention.
- Scaled the system to handle millions of events/sec during WBD's launch event, delivering uninterrupted customer experience.
- Worked on root causing issues related to throughput, cache miss, network errors on hosts in a Distributed fleet.

Health Catalyst | Software Engineer | Remote   Oct 2021 - Nov 2022
ASP.Net, C#, .NetCore, Azure Data Factory, SnowFlake, SQL, Pyspark, Azure Data Bricks
- Designed a source-agnostic ETL framework in Azure Data Factory that streamlined onboarding of new clients and loading data into Snowflake.
- Developed PySpark + Databricks data transformers to process terabytes of healthcare data into Snowflake, improving performance and reliability.
- Resolved critical production pipeline issues during on-call rotations, maintaining 99.9% uptime for customer systems.

Groove Health | Software Engineer Intern | Remote   Jan 2021 - Sept 2021
ASP.Net Core, C#, EF Core, Azure App Services, Azure SQL, JSON, Postman, XUnit, Git
- Enhanced patient engagement by developing a family-sharing feature in the app with secure access controls.
- Increased medication adherence through automated refill reminders with push notifications and purchase options.
- Integrated with Alexa to allow patients to set medication reminders via voice commands.
- Secured user authentication by implementing OAuth2 login flows with Google, Facebook, and Apple providers.

Copart | Software Engineer QA Automation Intern | Dallas ,TX   Aug 2020 – Jan2021
Java, SpringBoot, Selenium, MariaDB, JMeter, Jenkins, Postman, Grafana, InfluxDb, Git
- Improved test coverage by creating Java Selenium-based UI automation scripts for critical seller portal workflows.
- Reduced testing cycle time by integrating JMeter load tests with Jenkins pipelines, and visualized performance metrics in Grafana and InfluxDB.

Tata Consultancy Services | Software Engineer | India   Sep 2017–July 2019
SSIS, SQL, ASP.Net, C#, Jenkins, SSMS, DataWareHousing, BitBucket
- Built performance tuned SSIS ETL pipelines to ingest and transform large-scale financial data.
- Reduced ETL job monitoring effort by 50% through optimized SQL monitoring scripts and automated alerting.

PROJECTS
AI-Powered Resume Curator — OpenAI, LLama, SpringBoot, RAG, Prompt Engineering
- Problem: Job seekers spend time tailoring resumes manually.
- Solution: Developed an AI-driven tool that reads job descriptions and auto-generates a tailored resume using Springboot service and OpenAI/LLama models.
- Features: Context-aware tailoring, customizable prompts, retrieval-based context injection.
- Learning: Gained deep understanding of prompt engineering, RAG design, and model orchestration.

Patient Management Desktop App — Electron, Angular, MongoDB
- Problem: Clinics need a lightweight system to manage patient data without costly software.
- Solution: Built a desktop app for managing appointments, prescriptions, and patient records with MongoDB persistence.
- Features: CRUD patient profiles, appointment tracking, prescription management.
- Learning: Experience in Electron-based cross-platform apps and full-stack integration with NoSQL.

Mini SQL Engine with Memory Management — Java
- Problem: Explore DB internals and OS memory.
- Solution: Built a toy SQL engine with CRUD, B+ Tree indexing, and block-level storage.
- Learning: Learned transaction processing, indexing, and memory management principles.

EDUCATION
Master of Science in Computer Science (GPA 3.6/4)   Aug 2021
The University of Texas at Dallas, Texas
Bachelor of Technology in Computer Science & Engineering (GPA 8.36/10)   July 2017
West Bengal University of Technology, India

HOBBIES

- Passionate about music — playing guitar and recording tracks using DAWs.
- Enjoy reading books related to software engineering and computer science.
- Outdoor enthusiast — hiking and playing cricket in free time.