KULDEEP SINGH

SYNOPSIS

- ➤ Dynamic Lead Developer having 9+ years of experience in Pharma/Healthcare, E-commerce, internet marketing, IOT, textile, ERP, CRM domains.
- ➤ Strong experience in designing and developing end-to-end systems covering architecture design, frontend systems, backend systems, databases, servers etc.
- ➤ Expertise in designg system, scalable systems, concurrent programming, and data processing.
- ➤ Extensive experience in microservices, micro-fronend domain-driven design, test-driven design, and clean architecture.
- ➤ Proficient in technologies like AWS including serverless, EKS, queue services, batch processing, with docker many more cloud services.
- ➤ Developed and maintained Python script for data processing and IDP using Python, Node, and AWS.
- ➤ Experience in Elasticsearch, Redis cache, fuzzy search, and CI/CD pipelines.
- ➤ Good understanding of data streaming tools like Apache Kafka and Kubernetes etc.

ACADEMIA

- o **B.Tech. (Bachelor of Technology)**

TECHNICAL SKILLS

- ➤ **Server-Side Language:** Node, JavaScript, TypeScript, Python, PHP
- ➤ **Front-End:** React, Redux, Angular, HTML, CSS
- ➤ **Web Framework::** Express, Hapi, Next
- ➤ **RDBMS & Tools:** MySQL, PostgreSQL, MongoDb, Cassandra, Elasticsearch
- ➤ **Service Discovery and Coordination:** Zookeeper
- ➤ **Messaging Systems / Message Brokers:** Kafka, RabbitMQ, MQTT
- ➤ **Web Servers:** Apache, Nginx
- ➤ **Platform:** MacOS, Linux and windows
- ➤ **Cache**: Amazon ElastiCache and Redis
- ➤ **Cloud Computing:** Amazon Web Services (AWS)

PROFESSIONAL SKILLS

Damco Solutions   **MAY 2022 — Present**

Project 1: Theragraph

Theragraph, initiated by Dr. Brennan Walters, revolutionizes patient care by visually organizing complex medical data. It enables physicians to comprehend patient journeys swiftly, addressing the challenges of modern healthcare. My role involved developing this platform, enabling healthcare professionals to comprehend complex patient journeys effortlessly. I also led the full-stack developers team, contributed to development, and participated in architectural design.

Roles	
	o Developed a healthcare application compliant with FHIR HL7 standards.

& **Responsibilities**	o Implemented data anonymization and encryption measures in compliance with HIPAA regulations to enhance the security of patient data o Developed a robust data migration/extraction service using Python, Node.js, RabbitMQ and AWS lambda to seamlessly handle data transfer from XML files, documents and third-party services. o Reduced patient search processing time through the implementation of Least Recently Used (LRU) caching with Redis and Node.js. o Optimized database queries by implementing efficient transaction management, ensuring data integrity, and enhancing performance and scalability. o Developed smart system for managing patient drug usage, medical investigations, and healthcare utilization, with graph generation for medical history visualization. o Boosted microservices security with an aggregator and service workers, isolating access to our VPC, ensuring robust system protection and data confidentiality. o Contributed to the development of logging, monitoring and alerting systems for proactive issue resolution and system health monitoring.
Environment	Typescript, Node, React, Python, PostgresDb, Mongodb, AWS, AIML,RabbitMQ ,jira, Microservices

Project 2: Tradeling

Tradeling, the top B2B e-commerce platform in MENA, streamlines transactions, logistics, and financing. It connects global suppliers with local demand, offering intuitive product discovery, seamless supplier interaction, and efficient price negotiation. As a Senior Software Engineer in a global team, I contributed to enhancing product efficiency and building an enterprise platform from scratch.

Roles **&** **Responsibilities**	o Collaborated with cross-functional teams and client to gather requirements and define technical solutions aligned with business objectives. o Worked on payment processing, checkout, order management, back-office, RFQ systems, and negotiation modules. Integrated their APIs with SDKs to enhance platform performance o Collaborated with the team to design and develop micro-frontends for enterprise app, adhering to Clean Architecture principles. o Enhanced search functionality by implementing advanced features such as auto-suggest for popular keywords, top product recommendations, and fuzzy search using Algolia o Implemented Strapi CMS integration to optimize content loading time, enhancing platform performance. o Implemented the Google Optimize tool for A/B testing to assess the visibility of new features like search, dynamic navigation menu and login screen. o Optimized data loading performance through extensive implementation of server-side rendering using React with Next.js on the frontend and Node with TypeScript on the backend o Reduced development time by consolidating Redux across multiple micro-frontends using Redux Toolkit, minimizing Redux maintenance efforts and data redundancy. o Achieved a 95% reduction in dynamic navigation menu loading time on the homepage by optimizing API responses and implementing lazy loading. o Worked on the Design System module to develop new reusable components such as search components, smart dropdowns, address forms, and integrated them with data integration functionalities. o Optimized image processing and loading time by implementing AWS Lambda@Edge.

Environment	Node, React, Next, TypeScript, golang, Mongodb, AWS, Jira,Algolia, micro frontend

Project 3: Unbounce

Unbounce offers AI-driven tools for marketers to optimize campaigns and boost conversion rates, fostering lead generation and business expansion. As a senior backend engineer, I led the development of microservices bridging Unbounce with multiple marketplaces, ensuring seamless integration and communication

Roles & Responsibilities	o Developed a Proxy webhook to facilitate communication between Unbounce and third-party webhooks.
	o Implemented an authentication and authorization package for secure inter-service communication.
	o Utilized AWS CloudFormation templates in YAML to establish Code-as-Infrastructure.
	o Enhanced API security through encryption, monitoring, rate limiting, and error handling middleware.
	o Achieved a 95% reduction in project setup costs by automating project setup via CLI.
	o Utilized logging and data monitoring tools such as Sumo Logic, AWS CloudTrail, and CloudWatch for error handling, security, and performance optimization.
Environment	Node + TypeScript, Python, Java, Mongodb, AWS,DynamoDB ,React, Jest

Charmeuse Technologies   June 2019 — May 2022

Project 4: Vastraapp

Led the technical development of Vastrapp, a B2B software solution catering specifically to the textile industry. Orchestrated seamless integration from procurement to delivery, encompassing manufacturing, packaging, billing, and ERP capabilities across diverse organizational structures. Directed the team in implementing advanced stock management, wallet and operational efficiency enhancements.

Roles & Responsibilities	o Implemented multi-location organization/office functionality, optimizing customer operations.
	o Enhanced data processing efficiency by deploying caching mechanisms, Elasticsearch, and read replicas.
	o Developed a robust wallet and payment system, seamlessly integrated with all transactions.
	o Managed AWS services (Lambda, EC2, S3, RDS, CloudFormation, SNS, KMS) and implemented CI/CD pipelines.
	o Designed and deployed multiple AWS Lambda functions, facilitating serverless API solutions for third-party ERP systems (e.g., Tally, Turbo, Apple, JVM).
	o Enhanced various modules including Inventory Management, Job Slip (Job Card), and Design Recipe.
	o Implemented data synchronization and pull functionality between mobile apps using MQTT protocol.
	o Engineered a service for importing attribute stock data using Node.js and AWS Step Functions.
	o Contributed to projects such as white-label applications, Your Store, web applications, and admin panels.

	o Led a team of 6 developers, collaborating with multiple teams and providing mentorship to junior developers.
Environment	AWS, Microservices, Node.js, MySQL, MongoDB, redis, mqtt, and React.

Zenosys Services   **March 2018 — March 2019**

Project 5: Deltek Vantagepoint-

Deltek Vantagepoint is a leading SaaS platform managing project lifecycles. It centralizes client, project, and financial data, enabling resource allocation based on skills and availability, creating profitable project plans, optimizing resource utilization, and forecasting future capacity. As a Full Stack JavaScript Developer, I contributed to its development and enhancement.

Roles & Responsibilities	o Developed a Component-based STROM framework using JavaScript and Node.js. o Built Timesheet, Period Application, and various modules for the Vantagepoint and Vision applications such as contact, firm, and Expense Report, calendar. o Designed and implemented robust REST APIs. o Utilized EJS Template, and i18n for Internationalization. o Collaborated with the research and development team on WebRTC for customer Support App. o Conducted Web scraping using Node.js, jQuery in the backend, and JavaScript.
Environment	Node.js, MySQL (sequelize) JavaScript, joi, socket.io, Strom, EJS, jQuery and TFS.

Avik technosoft   **Jan 2016 — March 2018**

Project 6: Volts

Developed and maintained Volts System, a comprehensive vehicle tracking and management platform for an transport company. Managed company hierarchy structure and employee data. Contributed as a full-stack developer, ensuring seamless functionality across the system.

Roles & Responsibilities	o Engineered a robust tracking and management service for the company's fleet of vehicles, integrating real-time data manipulation and location tracking functionalities. o Implemented a pairing module utilizing OBDII and JBUS device data, along with equipment information. o Developed a dynamic module for managing company attributes via drag-and-drop functionality on Google Maps, ensuring seamless database updates. o Engineered an employee management and driver shift module to streamline workforce operations. o Effectively addressed client queries and issues, delivering timely and effective solutions to ensure uninterrupted operation.
Environment	PHP, MySQL, JavaScript, Google map apis

Project 7: CIP

Maintained CIP Property, a construction site management application for CIP, an Australian construction company. Contributed as a frontend developer, ensuring user-friendly interfaces and seamless functionality across the platform.

Roles & Responsibilities	o Designed and implemented dynamic report generation modules using Node.js, facilitating conversion to RTF, Word, Excel, CSV, and PDF formats. o Developed modules for construction site management and property management. o Engineered user-interactive web pages using AngularJS, enhancing user experience. o Implemented client-side and server-side validation, authentication, and authorization using AngularJS and Node.js.
Environment	Angularjs, JavaScript, Node, MySQL, MongoDB, HTML, CSS3 and JQuery.

RG Healthworld   **Dec 2014 — Dec 2015**

Roles & Responsibilities	o Successfully managed and developed four E-commerce portals (Aminoz, Isoedge, Proleo and Acurabliss). o Used Google analytics reports, optimized the page load time for the pages that had heavy traffic and improvised those pages using CSS. o Managed products and online inventory on ecommerce portals such as Amazon, Flipkart, Snapdeal, Paytm and Healthkart and etc. o Focus on products promotion online and Research/analyze competitor advertising links for increasesales. o Work with editorial and marketing teams to drive SEO in content creation.
Environment	HTML, CSS, JavaScript, JQuery, Bootstrap, SEO, Digital Marketing, E-commerce