

Rajat Sharma

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EDUCATION

Northeastern University, Boston, Massachusetts, USA
Master of Science in Information Systems, GPA – 3.810

Sept 2022 – Dec 2024

Guru Gobind Singh Indraprastha University, Delhi, India
Bachelor of Technology in Electronics and Communication Engineering

May 2007 – Apr 2011

TECHNICAL SKILLS

Frontend Technologies

JavaScript (ES6+), TypeScript, HTML5, React, Hooks, Next.js, GraphQL, Redux, Redux Toolkit, Angular.js, CSS3, Sass, Styled-Components, Tailwind, CSS Module, Storybook, Figma

Testing library & Framework

Jest, Enzyme, React Testing Library, Cypress, NightWatch.js, JUnit, Mockito, Spring Testing Framework

Backend Technologies

Java, Spring Framework, Spring Boot, Spring MVC, Spring Security, Spring Data JPA, Spring Cloud, OAuth2, JWT, MFA, SSL/TLS, AES encryption, Apache Kafka, OpenAI/Swagger

Cloud and DevOps

AWS (EC2, S3, RDS, Lambda), Azure, Pulumi, Packer, Docker, Kubernetes, GoCD, GitHub Actions, Jenkins, Prometheus, Grafana, Splunk

Architecture

Microservices, Micro-frontend, Design Systems, SPA, SSR, PWA, Serverless

Databases

MySQL, Oracle, MongoDB, Redis, PostgreSQL, Flyway, Hibernate, JPA

Web Server and Build Tools

Apache Tomcat, Nginx, Express.js, Webpack, Maven, Gradle, Parcel

PROFESSIONAL EXPERIENCE

New York Life Insurance, New York, USA, Software Engineer Co-op

Jan 2024 – Aug 2024

- Strategized and accelerated the **React 18 upgrade and release**, implementing advanced hooks and optimizing Redux store with Redux Toolkit, reducing rendering time by 30% and enhancing performance by 20%
- Architected and implemented **reusable** React components using **Styled-Components** for CSS-in-JS, reducing 40% code duplication
- Composed and upheld **RESTful** endpoints using **Java Spring Boot**, integrating with Sales Central, NYL internal, and third-party APIs
- Strategized and accelerated the **RBAC** upgrade, **refactoring** Sales Central Team's REST APIs for batch CRUD operations, boosting performance by 30%, reducing duplicate efforts, enhancing security, and simplifying administration by 20%.
- Oversaw **CI/CD** and **AWS** services (Code Pipeline, EC2, S3, Amazon RDS), monthly releases and urgent bug fixes

McKinsey & Company, India and Boston, New York, USA, Senior Lead Engineer

Oct 2016 – Aug 2022

- Collaborated with Firm Design team to create **Design System - React, TypeScript, and Storybook**, and **Bootstrap** theme, standardized **UX** across 20+ teams, halved development time and costs for accessible web applications, and saved over \$200k
- Pioneered **Micro-frontend** using **Webpack Module Federation** for modular code sharing and seamless integration across technology-agnostic applications, obtaining a 25% faster feature deployment and a 30% deduction in development time
- Drove frontend excellence through **performance optimizations (code splitting, lazy loading, Redux normalization)** and robust **testing (Jest, React Testing Library)**, resulting in 40% faster load times, 85% test coverage, and 60% fewer production bugs
- Drafted and spearheaded **RESTful Microservices** development with **Spring Boot, Node.js** and **Apache Kafka**, cutting module development and testing time and resources by 33%.
- Strengthened security with **Multi-Factor Authentication, Single Sign-On** and **OAuth2**, optimized **JSON Web Token** validation, cut malicious requests by 50% through **rate limiting** and **RBAC**, and ensured 99.9% data protection with **SSL/TLS** and **AES** encryption
- Devised testing and build processes, and deployed over 10 projects leveraging **GoCD, GitHub Actions, Docker, Kubernetes, and AWS** with **YAML, bash and shell** Scripts, and infrastructure as code, shortening deployment time by 75% and accelerated releases
- Facilitated **cross-functional collaboration** and **vendor management across New York and Boston offices**, optimizing planning, architecture, delivering high-impact, customer-facing solutions with a 35% productivity boost and substantial cost savings

Nagarro, India, Senior Associate Technology

Jul 2014 – Sep 2016

- Constructed and managed comprehensive reusable component libraries in **Angular** and **React**, diminishing development efforts by 25%, while obtaining a 20% decrease in load times through code refactoring
- Consulted closely with **client designers** to brainstorm and implement **UX enhancements**, achieving a 30% decrease in the number of clicks required for user actions
- Launched application **CI/CD** workflows with **Jenkins** tool, optimizing development and deployment processes and easing release cycle times by 50%. Further subduing post-release issues by 40% through stringent **linting** and **testing** procedures

Infosys Limited, India, Senior System Engineer

Dec 2011 – Jul 2014

- Designed and developed creative, reusable **Microsoft Silverlight** widgets and controls to improve user experience, enhancing web control interaction time and responsiveness by 30%
- Engineered and optimized data access logic for databases and external services, while refactoring frontend and backend code, resulting in 40% improved data retrieval latency and enhanced system performance

CERTIFICATES

- AWS Certified Solutions Architect - Associate 
- Microsoft Certified: Azure Fundamentals 

PROJECTS

GuideMe (React, Redux, Spring Boot, PostgreSQL)

Jan 2024 – Aug 2024

- Strategically upgraded existing components and dependent libraries to **React 18**, integrating advanced features to enhance functionality and performance
- Programmed **RESTful** endpoints and **RBAC** using **Spring Boot**, **Spring Security** and **Spring MVC** framework to cut the time & resources by a third needed for autonomous module development and testing
- Administered monthly releases and streamlined **CI/CD** pipelines utilizing AWS services such as **CodePipeline**, **EC2**, **S3**, and **Amazon RDS**, ensuring smooth and efficient deployments
- Revamped codebase to **enhance security** and **performance**, eliminating redundancy and complexity, and introduced Custom Batch APIs, significantly reducing network calls and duplicate code

Alumni Center (React, Redux, TypeScript, Spring Boot, Oracle, MySQL, Azure, AWS)

Jun 2020 – Aug 2022

- Headed a team of 12 software engineers in architecting, executing, and delivering cloud-native applications, utilized **Micro Frontends** for **React**, **Angular**, and **JavaScript** applications and **Microservices** for **Spring Boot**, **Ruby on Rails**, and **Node** services
- Implemented **React lazy loading**, **code splitting** with **React.lazy** and **Suspense**, **memoization** using **React.memo**, and **custom hooks** for optimized data fetching, significantly reducing initial loading time and bundle size by one-third
- Constructed **RESTful** endpoint using **Spring Boot** with **Spring Security**, **Spring JPA**, and **Hibernate ORM**, optimizing data queries and caching, which reduced response times by 40% and improved system reliability
- Streamlined build and deployment processes through DevOps contributions, leveraging **GoCD**, **GitHub Actions**, **Azure Web Services**, **AWS Lambda**, **CloudFront**, **S3 Bucket**, **Docker**, and **Kubernetes** for automated workflows
- Executed comprehensive monitoring, analytics, and alerting, utilizing **Prometheus**, **Grafana**, **Splunk**, and **SonarQube**. This bolstered application availability and reliability, leading to a 30% decrease in incident response

McKElections (React, Redux, Node, NightWatchJS, Docker, Kubernetes, MySQL)

Mar 2017 – May 2020

- Presented **MVP**, secured project approval, and assisted a **10-member vendor team** for **end-to-end** project development and delivery by utilizing the **agile** principle
- Pioneered a reusable **Pattern Library**, **Micro-frontend**, and **Microservices architecture**, reducing development and testing time and resources by one-third for autonomous module development
- Enforced comprehensive security measures, including **MultiFactor** & **JSON Web Token authentication**, **role-based access control (RBAC)** for access restriction, and encryption for both data in transit (SSL/TLS) and data at rest (AES)
- Generate **CI/CD** pipeline using **GoCD**, **Docker**, and **Kubernetes**, enabling seamless deployment and scaling of applications while ensuring efficient and reliable software delivery

McKinsey Design Systems (React, Bootstrap, Emotion, StoryBook, CDN, NPM, JFrog)

May 2019 – Oct 2019

- Coordinated with the Firm Design team to deliver the Firm **Design System**, a **React** library in **TypeScript**, and a **Bootstrap** theme. This initiative standardized the **user experience** and improved **web accessibility** for the consumer web application
- Established a **CI/CD** pipeline with **JFrog NPM service** for the secure and efficient release of the Design System library. This encompassed secure storage, dependable **versioning**, and the seamless **distribution** of **npm packages**, dependencies, and associated artifacts