

KARAN GOYAL

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EDUCATION

Masters in Computer Science | **Khoury College of Computer Sciences** | Boston, MA Jan 2024 – May 2026
Related courses – Programming Design Paradigms, Database Management Systems, Web Development

Bachelor of Technology in Computer Science Engineering | **G.G.S.I.P.U** | Delhi, India Aug 2017 – Jun 2021
Related courses – Object Oriented Programming, Data Structures, Software Engineering

SKILLS

Programming Languages	Java, JavaScript, Typescript, Python
Web Technologies	NodeJS, ExpressJS, Spring Boot, MVC, RESTAPIs, HTML, CSS, Tailwind CSS, Vercel
Database Technologies and Testing	MongoDB, MySQL, NoSQL, JPQL, JPA, Kafka, Junit, Mockito
Containerization	Docker, Kubernetes, AWS, Openshift v3 and v4, Blue-Green Deployment
Libraries & Frameworks	ReactJS, NextJS, Bootstrap, Material UI, Maven, Gradle
Software Development Lifecycle	Agile, Scrum, Retrospective, Story Planning, Sprint, Service First
Other Tools	Git, AppDynamics, Jenkins, CICD, Elastic Search, Venafi, Bitbucket, JIRA, Vault, Consul

EXPERIENCE

BARCLAYS | **Full Stack Developer** | Pune, India Aug 2022 – Dec 2023

- Successfully migrated **52 critical microservices** from v3 to v4 on the Openshift platform across **6 environments**, including production. Addressed vulnerabilities and ensured seamless compatibility to maintain uninterrupted service delivery.
- Enhanced security and streamlined access control for critical microservices by implementing secret management with Vault.
- Accelerated deployment of Venafi SSL certificates across 52 microservices spanning 6 environments and 2 data centers, condensing deployment time from 9 sprints to just 3, yielding a significant efficiency boost. Successfully added a total of **624 certificates**.
- Onboarded 2 new clients, integrating REST API support and implementing API governance for newly created APIs.
- Participated in hackathons, reducing partner onboarding time from 10 months to 2 months and prioritized customer focus. Organized sprint and retrospective calls, as well as cultural events like Fun Friday to foster team cohesion and productivity.

TATA CONSULTANCY SERVICES | **Systems Engineer (Developer)** | Delhi, India Aug 2021 – Aug 2022

- Led a Building Access Entry Request System for Verizon's One Fiber Location Management System, utilizing React.js and Spring Boot, resulting in a 4ms reduction in API response time by optimizing API calls by cached-based record retrieval.
- Generated Database Change Request (DBCR) submissions for proposed database alterations in MySQL, and crafted 3 ReactJS pages for customer-centric functions. Overcame deployment challenges in UAT and production environments using Elastic Search.
- Orchestrated and executed a production plan with a 20-member onsite team, ensuring seamless implementation.
- Increased the SonarQube score by covering the code by Junit4 and Mockito with threshold value more than 90%.

MEDLIFE | **Web Developer Intern** | Delhi, India Jan 2020 – Mar 2020

- Led a frontend team in creating a product listing webpage using HTML, CSS, Bootstrap, and JavaScript, ensuring an intuitive and responsive user interface.
- Conducted thorough testing of products including payment cards and homepage, iteratively adjusting meet project requirements and enhance user experience.

PROJECTS

Stock Application Management | Java, MVC, Design Patterns (SOLID), REST API, JFrame | [Git](#) Jan 2024 – Apr 2024

- Developed a robust stock management application integrating design patterns such as facade, builder, MVC, SOLID principles, and command patterns, prioritizing abstraction, and code reusability to ensure scalability and extension.
- Implemented two interaction modes, CLI and GUI, offering users flexibility in navigating and utilizing the application.

Foodingle Website | ReactJS, JavaScript, NodeJS, MongoDB Aug 2020 – Sep 2020

- Developed the food restaurant e-commerce web application using the MERN Stack (**MongoDB, ExpressJS, ReactJS, NodeJS**).
- Implemented features such as user authentication, product listing, cart management using ReactJS.

INTERESTS/ACTIVITIES

- Teaching assistant at Northeastern University, where I worked as technical lead for product development of 3 teams.
- IICDC semi-finalist, developed a SITKIT (a foldable chair) a solution to reduce problems of many old age people while traveling.
- Training and Placement coordinator at GGSIPU, helped in placement of 600+ students in different companies at the time of covid.