

# Animesh Raj

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## Summary

Skilled software engineer with expertise in **Java Full Stack Development**, specializing in **Core Java, API Management**, and **Microservices**. Proficient in **ReactJS, NodeJS, Spring Boot**, and **DevOps** tools like **Docker, Kubernetes, AWS**. Experienced with **MongoDB, MySQL**, and secure coding practices using **ZAP, Semgrep, Snyc, Trufflehog**. Passionate about learning new technologies and delivering reliable solutions.

## Technical Skills and Interests

**Languages:** Typescript, JavaScript, C, C++, Python, Java, HTML5/CSS3

**Frontend Development:** React.js, React Native, Next.js, Tailwind CSS, Material-UI, State Management Libraries (Redux)

**Backend Development:** Node.js, Nest.js, Express.js, GraphQL, SpringBoot, RESTful APIs, WebSockets

**Databases:** MongoDB, MySQL, PostgreSQL, SQLite, Redis

**DevOps and Deployment:** Git, GitHub, GitLab, CI/CD (Jenkins), Docker (Containerization), Kubernetes (Orchestration), Cloud Platforms (AWS, Digital Ocean), Server Management (Nginx)

**DevSecOps:** ZAP (DAST), Semgrep (SAST), Snyc (SCA & SAST), TruffleHog (Secret Detection)

**Frontend Tooling:** Visual Studio Code, Webpack, Babel, ESLint, SCSS, Gulp, Jest, Cypress

**Backend Tooling:** Postman, Swagger (API Documentation)

**Mobile App Development:** React Native

**Design and Collaboration:** Figma, Git Version Control

**Security and Authentication:** JWT (Authentication & Authorization), SSL/TLS (Security Best Practices)

**Developer Tools:** NeoVim, VIM, Arch Linux, Ubuntu, grep, Bash, Linux GNU Core Utils

**UI/UX Design Tools:** Figma

**Other Tools:** Content Creation, Video Editing, DevOps Practices

**Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Object-Oriented Programming, Database Management System, Software Engineering

**Areas of Interest:** Web Design and Development, Cloud Security, DevOps Practices

**Soft Skills:** Problem Solving, Self-learning, Presentation, Adaptability

## Experience

### Tata Consultancy Services

December 2023 - Present

Full Stack Engineer and DevSecOps Engineer

Kolkata, West Bengal

- Built with **React.js, Spring Boot**, and **Node.js**, leveraging **Gen AI models** for natural language understanding and contextual responses to handle over **10 million** queries per day.
- Designed and implemented an optimized query distribution system using **Spring Boot** for scalable microservices and **Node.js** for real-time handling, reducing latency by 40% through efficient load balancing and caching.
- Integrated advanced **ML models** for predictive user behavior analysis, enhancing chatbot engagement and personalization.
- Developed robust RESTful APIs with **Spring Boot**, enabling seamless communication between services. Achieved a reduction in API response times from an average of 137ms to 104ms (approximately 24% improvement) and enhanced scalability to support operations with over 1 million concurrent requests.
- Deployed a secure and efficient CI/CD pipeline using **Snyk, ZAP, Semgrep, TruffleHog**, and **GitHub Actions**, enabling automated testing and vulnerability detection. Reduced deployment times by 30%, identified and mitigated critical security vulnerabilities in under 24 hours, and ensured consistent monitoring for compliance with secure development practices.
- Delivered insights into user interaction data by writing optimized SQL scripts, analyzing query patterns and behavior. Provided actionable analytics that improved chatbot features and enhanced the user experience through continuous feedback integration.
- Played a critical role in end-to-end system integration, leveraging a Spring Boot-based microservices architecture for efficient query distribution and enhanced system reliability.

### Optimum Wellness

April 2022 – July 2022

Full Stack Engineer

Remote

- Led the development of a **dynamic website** using **Next.js, React.js, Node.js**, and **MongoDB**, optimizing performance and SEO, achieving a 23% reduction in page load time.
- Managed and **integrated secure payment processing** by implementing **payment gateway (razorpay)** to ensure a smooth and secure transaction experience, resulting in a 37% increase in successful transactions.
- Designed and implemented a **containerized monolithic application** to handle **email communication** efficiently, improving email delivery speed by 30% and ensuring timely user interactions.
- Independently created a visually appealing and user-friendly interface using **Tailwind CSS**, improving the user interface consistency and responsiveness across devices.
- Handled all aspects of **quality assurance and testing**, enhancing website reliability through debugging, testing, and performance optimizations that reduced error rates by 10%.

## Education

### Bachelor of Engineering in Electronics and Communication Engineering

University Institute of Technology, The University of Burdwan

### AISSCE - Class 12 (Physics, Chemistry, Maths, and Computer Science)

Jawahar Vidhya Mandir Shyamali, Ranchi

2019 - 2023

CGPA: 7.96/10.0

2016 - 2018

Percentage: 74.2/100

## Certifications

Academind   React Native - The Practical Guide [2024]	<a href="#">View Certificate</a>
Academind   Docker & Kubernetes: The Practical Guide [2024 Edition]	<a href="#">View Certificate</a>
Stephen Grider   NestJS: The Complete Developer's Guide	<a href="#">View Certificate</a>
Ariel Weinberger   NestJS Zero to Hero - Modern TypeScript Back-end Development	<a href="#">View Certificate</a>
Chad Darby   Spring Boot 3, Spring 6 & Hibernate for Beginners	<a href="#">View Certificate</a>
in28Minutes Official   Spring Framework Master Class - Java Spring the Modern Way	<a href="#">View Certificate</a>
in28Minutes Official   Master Microservices with Spring Boot and Spring Cloud	<a href="#">View Certificate</a>
Academind   React, NodeJS, Express & MongoDB - The MERN Fullstack Guide	<a href="#">View Certificate</a>
Coding Ninja   Back End   Full Stack Web Development in Node.js	<a href="#">View Certificate</a>
Coding Ninja   Full Stack   Advance Front-End Web Development with React	<a href="#">View Certificate</a>
Coding Ninja   Front End   Full Stack Web Development	<a href="#">View Certificate</a>
Coding Ninja   Java   Data Structures in Java	<a href="#">View Certificate</a>
Coding Ninja   Java   Introduction to Java	<a href="#">View Certificate</a>
Internshala   Python   Programming with Python	<a href="#">View Certificate</a>
University of Michigan   Python   Getting Started with Python	<a href="#">View Certificate</a>
IBM   Introduction to Web Development with HTML, CSS, JavaScript	<a href="#">View Certificate</a>
Johns Hopkins University   HTML, CSS, and Javascript for Web Developers	<a href="#">View Certificate</a>

## Personal Projects

### itsarraj.me

Dec 2020 - Present

A personal portfolio website showcasing skills, projects, and achievements.

[Live](#) [Code](#)

- Built using **Next.js**, **React.js**, and **Tailwind CSS** for fast rendering and responsive design.
- Implemented **dynamic routing** for seamless navigation and improved SEO performance.
- Optimized **Lighthouse scores** by 79% through image lazy loading and efficient code splitting.
- Integrated **EmailJS** for contact form submissions, reducing form handling time by 40%.
- Employed **GitHub Actions** for CI/CD to streamline deployments and improve deployment time by 30%.

### CircuitCrafter

Sept 2022 - Present

An e-commerce platform built with React, Express, and MongoDB to sell electronic components.

[Live](#) [Code](#)

- Developed using **React**, **Redux**, **Express**, and **Tailwind CSS** for optimized user interfaces and state management.
- Implemented **JWT-based authentication** for secure user login, reducing unauthorized access attempts by 45%.
- Integrated **PayPal's Client SDK** for secure payment processing, enhancing transaction security.
- Engineered a **responsive product catalog** with dynamic filters and pagination, improving user browsing experience.
- Utilized **MongoDB** for product storage and **Cloudinary** for efficient image hosting, improving image load by 72%.
- Deployed with **Docker** to containerize backend services, improving deployment consistency and reducing startup time by 58%.

### Kruxigen

July 2022 - Present

An educational services platform offering full-stack web development tutoring with MERN stack focus.

[Live](#) [Code](#)

- Developed using **TypeScript**, **Node.js**, **Express**, and **React** for scalable, maintainable code.
- Designed a **modular structure** for components, streamlining content updates and reducing time-to-update by 35%.
- Created a **responsive and accessible UI** ensuring a seamless learning experience across devices.
- Implemented **real-time chat feature** using **Socket.IO**, improving communication between users and instructors.
- Integrated a **robust form validation system** using **Formik** and **Yup**, enhancing form reliability and reducing submission errors by 20%.

## Design Projects

### Job Portal Design - CodeCareerHub

Dec 2022 - Present

A comprehensive job portal interface design with modern UI/UX principles and user-centric features.

[View Design](#)

- Created an intuitive and responsive design system incorporating **modern UI components**, **user flow diagrams**, and **interactive prototypes** for seamless job search and application process.

## Positions of Responsibility

### Chapter Lead TheCodeBird - Coding Club UIT-BU

Nov 2020 - Jan 2022

- Led a **25-member team** to organize **10+ virtual events** with **2000+ participants**, including coding competitions, speaker sessions, and alumni meetups.
- Designed **technical challenges** and coding assessments to evaluate and enhance programming skills.