# FNU SUMIT KUMAR

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## WORK EXPERIENCE

**Graduate Assistant Web Developer** | Cal State – Dominguez Hills        Carson, CA, USA | Mar 2023 – Present

- **Implemented** real-time analytics in a **MERN-based** application using **Web Sockets** (Socket.io) and **AWS Lambda** & **Firebase**.
- Optimized multiple websites, improving page load speed & overall performance by **40%** through **caching**, database optimization, & **JavaScript code refactoring**.
- **Conducted system analysis,** design, development**, unit testing** & documentation for small-to-medium-scale implementation.
- **Designed & developed** Dynamic Web Pages for multiple events using **React.js** and **Next.js** for a total of **6 departments.**
- **Collaborated** with teams to ensure timely delivery & resolve technical challenges, maintaining code quality & performance.

**Full Stack Developer** | IBM India Pvt Ltd        Bengaluru, India | Jun 2021 – Nov 2022

- **Developed RESTful and GraphQL APIs** for secure data exchange between client-facing apps and external services.
- **Optimized database schemas** & **crafted SQL queries**, reducing data retrieval time by **30%** and improving **CRUD operations.**
- **Containerized microservices** using **Docker** & integrated **CI/CD pipelines** (Git, Jenkins) accelerating deployment cycles by **30%.**
- Built responsive web pages using **React.js, Next.js**, and **TypeScript**, improving performance and user experience by **20%.**
- **Collaborated** with cross-functional teams to deliver full-stack applications using **React.js, Node.js,** and **MongoDB.**
- Applied **OOPs principles** in JavaScript to develop modular, reusable code adhering to industry-standard design patterns.

**Jr. Web Developer** | Enuke Software Pvt Ltd        Gurugram, India | Jul 2020 – Jun 2021

- **Enhanced security** in Node.js applications by implementing **OAuth2 and JWT-based authentication** and authorization processes, ensuring data confidentiality by **30%.**
- **Integrated third-party APIs** (Stripe, Twilio, AWS, Firebase) to enhance application functionality, boosting performance.
- Built interactive front-end applications using **React.js and Next.js**, leveraging modern UI libraries like **Material UI, Redux**, and **Tailwind CSS**, while optimizing performance through reusable components, efficient state management, and SSR (**Next.js**)
- **Collaborated in Agile/Scrum environments**, participating in sprint planning and stand-up meetings to ensure timely delivery.
- Created and executed **technical documentation** for system architecture, APIs, and deployment processes.

**Student Intern** | Nagarro Software Pvt Ltd        Bengaluru, India | Jan 2020 – Jun 2020

- **Gained hands-on experience** in **Node.js** and **JavaScript**, focusing on OOPs Concepts, data structures, and algorithms.
- **Developed scalable web solutions** using the MERN stack, implementing secure design patterns and performance optimization.
- **Improved front-end performance** using SSR (Next.js), lazy loading, code splitting, and advanced state management techniques.
- **Collaborated with senior developers** to integrate RESTful APIs, ensuring seamless data communication between front-end and back-end systems.

## PROJECTS

**Covid-19 Test Booking Application – (C-19 Test Booking)**        **Node.js, Express & MySQL**

- Spearheaded backend development using Node.js and MongoDB, establishing a robust foundation for the application.
- Designed a user-friendly application enabling remote COVID-19 test appointment booking to mitigate disease transmission.

**Food Ordering Application – (Food-Hub)**        **Node.js, Express, MongoDB & JavaScript**

- Developed RESTful APIs for user authentication, menu operations, and order processing. Enhanced UX through dynamic web pages with HTML, CSS, and JavaScript, ensuring a seamless, visually appealing interface.
- Enabled live location tracking and integrated secure online payments, elevating app functionality and user convenient.

## SKILLS

**Languages:** Java, Python, C++, JavaScript, TypeScript, HTML5, CSS3.
**Frame Works & Libraries:** Node.js, Nest.JS, React.JS, Next.JS, Tailwind CSS, Redux, Material UI, Spring Boot, MVC.
**Databases:** MySQL, PostgreSQL, MongoDB, Firebase, GraphQL (SQL & NoSQL).
**Operating Systems:** Microsoft Windows, Linux.
**Tools:** SQL Server Management Studio, Docker, AWS, Kubernetes, Jenkins, Agile/Scrum, VS Code, Eclipse, Notepad++, Git.

## EDUCATION

**Masters in Computer Science** | Cal State – Dominguez Hills        Jan 2023 – May 2025

- **Relevant Courses:** Design & analysis of Algorithms, Data Analysis, Software Engineering, Operating Systems, Software Project Planning, Artificial Intelligence, Advance Programming Languages (Python)

**Bachelors in Computer Science |** UIET, MD University        Jul 2016 – May 2020

- **Relevant Courses:** Database Management Systems, Data Structures, Web Development, Programming Languages (Java)