

# Sathvik Chilaka

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## WORK EXPERIENCE

### DELOITTE USI | ANALYST II

July, 2023 - Present

- Spearhead UI development as **Frontend Lead Developer** of DocuEdge, Deloitte's proprietary **SaaS** product, specializing in database migration and management. Utilized **ReactJs** to implement best practices by following the development fundamentals, ensuring the scalability and workflow of the application by creating reusable components which **asynchronously** fetches hundreds of billions of data records from multiple **RESTful APIs** while using **TCP**, **HTTP**, and **WebSocket** for reliable data transmission and real-time communication.
- Developed multiple **custom React hooks** designated to handle **API mutations** seamlessly, using advanced JavaScript features and modern **ES6+** syntax with the help of powerful JS compiler bundles like **Webpack & Babel**.
- Performed unit testing using **Jasmine** libraries to ensure the reliability of individual components, and scripted **Selenium** codes for automation of UI testing, boosting testing efficiency by 150%.
- Built scalable, responsive web applications using **advanced CSS** and animations along with **DOM Manipulation** with JavaScript & **jQuery** by following industry-standard UX patterns.
- Established a **CI/CD pipeline** using **AWS Code Build** tools and **Terraform**, cutting down deployment time by 50%.

### TATA CONSULTANCY SERVICES | RESEARCH & INNOVATION INTERN

May, 2022 – July, 2022

- Enhanced code control and maintainability by upgrading a 5-year-old legacy **Angular8** codebase to **Angular13** version, enhancing robustness by using **Server-Side Rendering (SSR)** & **Client-Side Rendering (CSR)** techniques.
- Increased UI test coverage by 43% using **Jest**, improving component reliability and testing comprehensiveness.

### NEOMENTORS | DSA TUTOR

Dec, 2021 - Jan, 2022

- Facilitated online classes and sessions, mentoring hundreds of students in **Data Structures and Algorithms**.

## EDUCATION

### BTech. Computer Science and Engineering Undergraduate

| 2019-2023

INDIAN INSTITUTE OF TECHNOLOGY BHUBANESWAR (IIT BBS)

CGPA : 7.5/10

## PROJECTS

### SOCIAL MEDIA APPLICATION

REACT, NODE.JS, EXPRESS.JS, MATERIAL.UI, MONGODB, REST API

- Developed and launched a responsive social media platform with features like likes, comments, follow/unfollow, post blacklisting, feedback, and trending video recommendations, boosting user engagement by 40%. Improved search with a Trie-based algorithm, reducing retrieval time by 35% and ensuring cross-browser compatibility.
- Integrated **Google OAuth** authentication within a **MaterialUI** React framework, contributing to a more streamlined user experience that led to a decrease in support requests related to login issues by 60%.

### MODERN YOUTUBE CLONE

HTML, CSS, REACT, JAVASCRIPT, RAPID API

- Engineered and integrated video streaming wireframe features similar to YouTube, including home page content viewing, channel media, video streaming, and simultaneous similar video recommendations.
- Deployed the product using **Kubernetes** and **Docker** images for scalable containerization environments, and utilized **AWS CloudFront** to optimize content delivery and performance.

## SKILLS & CERTIFICATIONS

**Programming Languages:** C, C++, Java, Python, MATLAB, Native JavaScript, TypeScript.

**Web Technologies:** ReactJs, Redux, Angular, Node.js, Express.js, jQuery, HTML5, CSS3, MongoDB, PostgreSQL, Jasmine, SQL, NoSQL.

**Technology:** Git, AWS, Docker, Kubernetes, MongoDB, PostgreSQL, Figma, Sentry, UNIX/Linux Programming, Chrome Dev Tools.

**Computer Science Concepts:** Operating Systems (OS), Database and Management Systems, OOP, Software Design Process.

## ACHIEVEMENTS

- Achieved the esteemed **Special and Outstanding accolade** at Deloitte USI within just four months of joining the DocuEdge Team, recognized for my significant contributions to **Migration & UI Development**.