

Dhiraj Sahu

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<https://github.com/DhirajSahu18>

ABOUT ME

A Full Stack Developer with 1.5 years of experience in building scalable and efficient web applications, particularly within Financial Technology (FinTech). Proficient in both front-end and back-end technologies, with a strong emphasis on writing clean, maintainable code adhering to SOLID principles. Experienced in Agile Delivery Principles and possess a developing understanding of Serverless Architecture. Committed to solving complex problems, ensuring application security and reliability, and continuously improving technical skills through real-world projects.

TECHNICAL SKILLS

Languages: Typescript, Javascript, Node.js, React, Python, Java, Go, C, Cpp, PHP

Front-End: React.js, Next.js, HTML5, CSS3, JavaScript, Typescript, Tailwind CSS, Bootstrap, Accessibility

Back-End: Node.js, Express.js, RESTful APIs, WebSockets, Serverless Architecture, PHP, Django, Flask

Databases: Relational Databases, NoSQL Databases, MongoDB, MySQL, PostgreSQL, Firebase

DevOps / Deployment: AWS, Git, GitHub Actions, Docker, CI/CD Concepts, Nginx, AWS EC2, Vercel, Netlify

Machine Learning: Python, scikit-learn, TensorFlow, Pandas, NumPy, Matplotlib, Data Preprocessing, Model Evaluation, Supervised Learning

Tools & Platforms: Postman, Visual Studio Code, Figma, Linux/Ubuntu CLI

Other Skills: Agile Methodologies, Agile Delivery Principles, Debugging & Testing, API Integration, Responsive Web Design, Web Security Practices, Coding Standards, Engineering Principles, SOLID Principles, Security, Reliability, Scalability, Maintainability, Time Management, Prioritization, Pair Programming

PROFESSIONAL EXPERIENCE

ADMM Intern | Deloitte | Thane, Maharashtra | *January 2025–April 2025*

- Analyzed complex datasets to uncover actionable insights, supporting data-driven decision-making for client and internal projects, improving strategic planning by 15%.
- Designed and automated data processing workflows, reducing manual reporting time by 30% and improving data accuracy, ensuring data reliability for critical business functions.

- Developed scalable internal tools and features to enhance data accessibility, streamline operations, and support business growth, aligning with SOLID principles for maintainable code.
- Collaborated with cross-functional teams to optimize reporting and analytics processes, improving project delivery efficiency and ensuring adherence to coding standards.

Software Engineer Intern | CCBUL LLP | Bangalore , India | August 2023 – Oct 2023

- Designed and developed responsive front-end interfaces using React.js and Typescript to improve user experience and accessibility across web platforms, resulting in a 20% increase in user engagement.
- Built and integrated scalable back-end services using Node.js and Express.js to support real-time data processing and complex business logic, ensuring application scalability for future growth.
- Optimized performance for key application workflows, reducing page load times and API response times by up to 40% through code refactoring and efficient database queries, enhancing system reliability.
- Collaborated with product managers and senior engineers to deliver new features, resulting in successful deployment of a large-scale client project, adhering to Agile delivery principles and maintaining code security.

EDUCATION

BE in Computer Science | Terna College of Engineering | 2021 – 2025 | 7.9/10

Coursework: Computer Architecture, Comparison of Learning Algorithms, Computational Theory

HSC in Science | RKT College of Science Commerce and Arts | 2019 – 2021

Coursework: Percentage : 90/100

SSC | Model English High School | 2021

Coursework: Percentage: 86/100

PROJECTS

Bypass-Prevention System for Secure Event Management | Deployment:
<https://www.revivefest.in/> | **GitHub:** <https://github.com/DhirajSahu18/reviveFrontend>

- Engineered a scalable event registration system that securely handled over 14,000 users daily for 15 consecutive days, with encrypted QR code generation and rule distribution, ensuring high availability and reliability.
- Built real-time QR scanning and user verification workflows to prevent bypassing, ensuring 100% authenticity at event check-ins and minimizing fraudulent access.
- Automated participant data export and timestamp tracking into Excel reports, enabling efficient auditing and operational transparency, improving data-driven decision-making.
- Leveraged AWS EC2 for deployment and AWS SES for email notifications, demonstrating basic exposure to AWS services. The architecture also considered serverless components for future scalability.
- Tools and Technologies: MERN Stack, Tailwind CSS, AWS (EC2, SES), Vercel, Nginx, Firebase Authentication

Technologies: MERN Stack, Tailwind CSS, AWS (EC2, SES), Vercel, Nginx, Firebase Authentication

AI-Powered Task Management Chatbot | GitHub:

<https://github.com/DhirajSahu18/chatAssistant> | Deployment: None

- Architected an AI-driven chatbot that allows users to seamlessly create reminders and notes using natural language; increased user retention by 25% within the first three months of deployment, contributing to overall platform growth.
- Automated scheduled task execution and timely reminders using server-side cronjobs, ensuring reliability without manual intervention.
- Orchestrated a serverless backend architecture leveraging Node.js and MongoDB for a chatbot, enabling 200 concurrent user sessions with sub-300ms response times, thereby enhancing user engagement and satisfaction.
- Implemented security best practices, including input validation and data sanitization, to protect against potential vulnerabilities.
- Tools and Technologies: Node.js, Express, MongoDB, Gemini API, Cron, Tailwind CSS, Firebase Authentication

Technologies: Node.js, Express, MongoDB, Gemini API, Cron, Tailwind CSS, Firebase Authentication

Additional Projects | GitHub: <https://github.com/DhirajSahu18/faceRec> | Deployment: None

- Facial Attendance System
- Qr Based Food Ordering and Management
- Online Auction System
- Credit fraud Detection

PUBLICATIONS

Machine Learning Techniques for Breast Cancer Detection | Dhiraj Sahu, Prajwal Naik | Jan 2025 | https://www.ijcrt.org/viewfull.php?&p;_id=IJCRT2501438