ALEKHA KUMAR SWAIN

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OBJECTIVES

Highly skilled **Full Stack Developer**. Proven experience in building robust, scalable progressive web applications and APIs, with a focus on performance, security, and user experience. Currently focusing on integrating **AI** into the **healthcare ecosystem** to create high-efficiency, low-cost solutions. Passionate about driving technological innovation, with a long-term goal to revolutionize AI in healthcare.

EDUCATION

Bachelor of Technology in Computer Science (**CGPA – 7.81** | **2021-2025)**
College Of Engineering Bhubaneswar   Bhubaneswar, Odisha
Higher Secondary Education   **(Final Score-66.6% | 2018- 2020)**
Saraswati gyana mandir H S school, Niladrivihar   Bhubaneswar, Odisha

SKILLS

Programming Languages: C, Java, Python, PHP, Dart, JavaScript

Frontend Development: HTML, CSS, Bootstrap, Sass, React, Vite, Redux , Tailwind CSS, Chakra UI

Backend & Frameworks: Node.js, Express.js, PHP

Databases: MongoDB, MySQL

Websocket: Socket.io

Deployment: Netlify, Render, Firebase

Cloud Technologies: Google Cloud Platform (GCP)

APIs & Other Tech Tools: Postman, JSON, AJAX, Git

APP Development: Flutter(Dart)

EXPERIENCE AND ACHIVMENTS

🏆 **Finalist – Trithon 2025 Hackathon**   **Mar 2025**
- Developed an **AI-powered healthcare PWA** featuring SuuSri, a **multilingual AI** voice assistant, and **video call** appointments.
- Shortlisted among the **top 45 teams** out of **350+** in **Trithon 2025**, organized by Trident Academy of Technology.

🏆 **Finalist – Technovate for India Conclave Ideathon**   **Feb 2025**
- Selected as one of **seven finalists** from numerous teams at the **Technovate for India Conclave Ideathon 2025**, organized by **Times of India**.

🏆 **Second Runner-Up, Srusti Tech Hack 1.0**   **Jan 2025**
- Developed a **comprehensive AI-driven emergency response and blood donation platform**.
- Secured **2nd Runner-Up among 150 participants** at this **state-level 48-hour hackathon**, organized by **Srusti Academy of Management**.

🏆 **7th Position, BPUT Project Exhibition**   **Dec 2024**
- Developed a **Healthcare App showcasing AI-driven emergency response solutions**.
- Secured **7th position among 153 projects** at the **BPUT Project Exhibition 2024**, recognized for **innovation and real-world healthcare impact**.

🏆 **Google Arcade Advance Milestone Winner**   **Dec 2024**
- Demonstrated **advanced cloud computing** and problem-solving skills, achieving significant milestones in the Google Arcade competition. Addressed complex coding challenges related to cloud infrastructure and development best practices.

🏆 **Accenture Nordics Software Engineering Simulation**   **Aug 2024**
- Completed a **software engineering simulation** with Accenture Nordics, where I designed **system architecture** changes, conducted **security assessments**, and debugged code. Applied **Agile methodologies** and performed **unit testing** to ensure robust and secure solutions.

🏆 **Cognizant Artificial Intelligence Job Simulation on Forage**   **Oct 2024**
- Completed an **AI-focused job simulation** with Cognizant, where I performed exploratory **data analysis** and built a Python module to **train machine learning models** and generate performance metrics. Presented findings to the business team using PowerPoint.

🏆 **AWS APAC Solutions Virtual Experience Program**   **Nov 2024**
- Completed a virtual job simulation with AWS, where I designed a **scalable hosting architecture** using Elastic Beanstalk for a client facing rapid growth and slow response times. Explained the architecture and cost structure in clear terms to ensure client understanding.

PROJECTS

- **Suprabhat**   **Dec 2022 – Jan 2023**
  - **Technologies**: React.js, Android (Java), Mobile App Development, PWA web app.
  - Created a mobile and web application for daily news delivery, achieving 95% user retention through a seamless UI/UX built with React.js and Java for Android..
- **Bunny Talk**   **June 2023 – Aug 2023**
  - **Technologies**: HTML, NoSQL, Responsive Web App , CSS, Bootstrap, JSON, Firebase.
  - Developed a real-time chatting web application using HTML, CSS, JavaScript, jQuery, Firebase, and API Integrated RESTful APIs for user authentication.
- **Posh Palette**   **Aug 2023 – Sep 2023**
  - **Technologies**: PHP, AJAX, JavaScript, CSS, Bootstrap, MySQL with the help of XAMPP Web Server.
  - Created a shopping website for female products with comprehensive frontend and backend development. Integrated RESTful APIs for product listing, inventory management, and order processing.Utilized Postman for API testing and validation, ensuring smooth integration.
- **Diagnostic Web App**   **Aug 2023 – Sep 2023**
  - **Technologies**: Web Applications, AJAX, JavaScript, PHP, MySQL with the help of XAMPP Web Server.
  - Designed and developed both frontend and backend for a blood testing agency startup using PHP, AJAX, and other technologies. Integrated custom APIs for data retrieval and manipulation, enabling functionality such as appointment scheduling, test result viewing, and patient record management.
- **Cafe Management System**   **May 2024**
  - **Technologies**: Java, SQL, UI/UX Design, Authentication Systems with the help of NetBean IDE.
  - Developed a management system to streamline operations for a cafe, resulting in a 20% reduction in order processing time. Integrated secure admin login for managing menus and billing
- **SuuSri AI**   **Sep 2024**
  - **Technologies**: React.js, Firebase, PWA web app, Gemini API.
  - An AI-powered chatbot built using **React.js** for the frontend and integrated with **Gemini APIs** to provide conversational responses in **Hinglish**.
  - The chatbot is designed to be **interactive, friendly, and intelligent**, mimicking human-like responses.
- **Swasthya Setu – Healthcare Innovation or EHRSS**   **Jan 2024**
  - **Technologies**: React.js, Node.js, Express.js, Firebase, PWA web app, Socket.io.
  - Developed a comprehensive platform integrating AI-driven emergency response & blood donation services.
  - **2nd Runner-Up** among 21 group at this **state-level hackathon**, at SRUSTI TechHack 1.0.
  - **7th position** among **153 projects** at the **BPUT Project Exhibition 2024** for the same idea.

CERTIFICATION

- **POSTMAN API Fundamentals Student Expert Certification**
- **Google Cloud Computing Foundations Certificate**
- **Microsoft Azure Fundamentals Certification**
- **Google Play Academy - Store Listing Certificate**
- **Artificial Intelligence Certification – Reliance Foundation Skilling Academy**
- **Fundamental AI Concepts – Microsoft Learn**
- **Fundamentals of Machine Learning – Microsoft Learn**
- **AI Essentials – Udemy**
- **Web Design & Development – Skill India Digital Hub**
- **The Complete MySQL Bootcamp – Udemy**
- **Let's Upgrade Certifications (HTML, CSS, JavaScript, React, Node.js, and MySQL)**