

Rudraneel Dutta

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TECHNICAL SKILLS

Languages: JavaScript, Python, SQL, Java, C, C++, HTML, CSS

Technologies: React, Redux, Node.js, Express.js, Three.js, Django, Docker

Databases: MongoDB, MySQL, Firebase

Problem Solving: Solved 350+ LeetCode problems on Data Structures and Algorithms.

EDUCATION

Kalinga Institute of Industrial Technology

2021 – 2025

Bachelor of Technology in Computer Science and Engineering

EXPERIENCE

Bluestone

Apr. 2025 – Present

Software Development Engineer Intern

- Led the development of a new Point-of-Sale (POS) software to replace legacy software used across 250+ retail outlets and warehouses.
- Developed reusable and responsive components with React, Vite and Tailwind CSS.
- Used Redux for global state management, authentication, role-based access and session management.
- Integrated Google Analytics and WebEngage to track user behavior over 50,000+ daily events.

Tata Elxsi

Jun. 2024 – Sep. 2024

Summer Intern

- Built a full-stack application using React, Node.js, and MongoDB to monitor data and information.
- Designed REST APIs with Express.js and implemented secure JWT based authentication.

PROJECTS

TypeScribe: Text to Handwriting | Python, Django, Tkinter, TensorFlow

Dec. 2024

- Built an Open-Source tool to generate natural handwritten documents from text using a Recurrent Neural Network (RNN).
- Awarded 70+ stars on GitHub after release. (rudraneeldutta.com/typescribe)

Kraft3D: Online 3D Printing Store | MongoDB, Express.js, React, Node.js

Jun. 2024

- Launched India's most affordable e-commerce platform for 3D printed products.
- 250+ orders delivered successfully within the first 4 months.
- Used React and Node.js, with MongoDB for database operations, Firebase for authentication and Stripe to ensure secure user transactions. (rudraneeldutta.com/Kraft3D)

AI Medical Companion | HTML, CSS, Flask, TensorFlow, OpenCV, Google Gemini

Mar. 2024

- Built a web application to diagnose medical conditions like breast cancer, Covid-19, heart diseases and diabetes with pre-trained models.
- Integrated an AI chatbot using Google Gemini for personalized contextual advice.
- Used Docker for containerization and deployed live on Render. (rudraneeldutta.com/diagnosis)

CERTIFICATIONS

IBM Full Stack Software Developer Professional Certificate

Coursera, Issued May 2024

AWS Academy: Introduction to Cloud

AWS Academy, Issued Mar. 2024

PUBLICATIONS

Dutta, R., Mohanty, S. (2024). Enhancing exam preparation through topic modelling and key topic identification. *Journal on Artificial Intelligence*, 6(1), 177-192. <https://doi.org/10.32604/jai.2024.050706>