

Rudraneel Dutta

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Languages: Java, Kotlin, C, C++, JavaScript, Three.js, SQL

Skills: Cybersecurity, Web Development, 3D Printing, Rapid Prototyping, IoT, Android Development

Work Experience

Ministry of Electronics and Information Technology (MEITY)

Cybersecurity & Digital Forensics Intern

National Institute of Electronics & Information Technology, May 2023

- Internship as Cybersecurity & Digital Forensics Analyst with hands-on experience in handling live cases pertaining to cybercrime and data retrieval.
- Analysis of evidence material on hardware pertaining to ongoing cases.

Guest Speaker

NIELIT Kohima, May 2023

- Spoke on exploring Rapid Prototyping in the field of Handicrafts and Textiles and its future.
- Conducted training sessions & workshops for students and faculty on 3D modelling and 3D printing.

Associate

Ministry of Electronics and Information Technology (MEITY), 2021

- Participated in the “Digital Intervention on Handloom and Handicraft Sector” exposition at Hornbill Festival, 2021, in the field of “Rapid Prototyping”.
- Demonstrated the advantages of 3D Printing to state officials pertaining to rural development and the Indian Handicrafts sector.

IoT Lab, KIIT

Core Member

Kalinga Institute of Industrial Technology, 2023

- Development and Implementation of multiple IoT-based solutions following best practices and industry standards using tools such as **Arduino** to drive scalability and interoperability.

Projects

3D Model Editor Web App ([GitHub Link](#))

- A Web Application built in **JavaScript**, using frameworks like **Three.js**, and **CSG** to customize and generate 3D Models in a simulated environment.
- Allow optimization of models to be **3D Printing** ready.

Smart Calculator App ([GitHub Link](#))

- A Calculator with variable memory designed to handle complex equations and BigDecimal values using **Kotlin**.
- Implemented main functions through **Android Studio**.

Customized Event Countdown ([GitHub Link](#))

- A customizable, interactive Web App to create a countdown and animated greeting for any event, implemented with **HTML**, **JavaScript** and **CSS**.

Arduino Integrated Smart-Home System ([GitHub Link](#))

- A Smart-Home built upon **Arduino** and **NodeMCU** to control and monitor home systems such as auto-garden watering, pump control and electronic control systems.

Education

- **Kalinga Institute of Industrial Technology B. Tech CSE (2021 – 2025)**
- **La Martiniere for Boys, Calcutta (2006 – 2021)**