

SHREYA BANIK

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EDUCATION

Hooghly Engineering & Technology, MAKAUT, INDIA

September (2017-2021)

Hooghly, WB., India

Pursued **Bachelor of Technology in Electronics and communication engineering** with **8.41/10**.

Secured rank under 10 from the entire department. Advised by Prof. Swaroop Samanta.

Chinsurah Balika Siksha Mandir, WB, INDIA

May (2015 - 2017)

Chinsurah, W.B., India

Completed Madhyamik (10th) and Secondary education (12th) with **79% and 73%** respectively.

Honored by Politician & Environmentalist, **Ratna De Nag** for standing **2nd rank** from my school in Madhyamik examination in 2015.

PROFESSIONAL EXPERIENCE

CBNITS Private Limited, Kolkata

(April-September)2021

Intern

Kolkata, W.B., India

- Trained new programming languages and worked on demo projects using **Node-JS, Express-JS, React-JS, MongoDB** etc.
- Developed **Responsive Chat Application** using **Node JS and Socket, MongoDB**.
- Developed **Digital Wallet application** under **React-Native environment, Angular & TypeScript**.

Advised by Subham Kumar Singh- Team Lead.

COGNIZANT Technology Solution, Kolkata

(October-2021) - Present

Programmer Analyst (GenC Developer)

Kolkata, W.B., India

- As a part of first phase technical training, learned **various programming technologies and applied them demo projects**.
- Coordinated training as a **Class Representative** for Trainee batch EAS IPM - 2022.
- Created **Scientific Calculator** using **JS, HTML5 & CSS3, SQL** and using **Core Java and Collection framework**, developed **Hotel Management System**.
- Developed **Shopping Cart Application** using **Microservice Architecture and SpringBoot framework**.
- Currently working in **Insurance domain** project, responsible for driving key operational services such as **Problem management and Change management** for improving the **application stability and functionality**.

Advised by Kaviraj Venkatrathinam- Team Lead.

PROJECTS

Responsive chat-server (Independent project)

February-2021

- Developed a **responsive chat server** with various web pages and stored data in the system.
- Used **Socket.io** to manage **real time web socket connections** to a Node js. server that will **allow to communicate real time chat messages to all clients connected to a single server**.

Digital Wallet Application (Internship project)

(April-September) 2021

- Developed an application for **Digital wallet based on Crypto Currency** using **react-native environment and angular framework**.

Shopping Cart Application(Independent project)

April-2022

- Developed an application for **Shopping facilities (Order and Track)** using **Core Java concepts and SprintBoot, Collection framework** is used.

ACADEMIC PROJECTS

IOT Based Multipurpose Unmanned Sea-Surveillance Vehicle for Défense Purpose (Final year project) 2020-2021

- My project attempts to explore the possibility of designing and implementing an **Unmanned Surface Vehicle (USV)** in **form of a Boat** with a **Surveillance Camera** installed for **search and rescue operations at Water bodies**.
- This USV can be **controlled over the internet** using concepts of **Internet of Things**.

- The main **Microcontroller is NodeMCU** for handling all the control features and sensor implementations. NodeMCU has an inbuilt microcontroller along with a **Wi-Fi module ESP8266 12E**. The boat uses **DC motor and propeller for actuation and servo for Radar control**.
- It has an **onboard GPS for Location tracking** and in case of any anomaly Quick response team can be sent at that location.
- The Power supply for the boat is divided into **two parts- Li-ion 18650 batteries** for delivering **power at night and Solar Panels** for charging those batteries whenever possible. This architecture for power delivery ensures long mission times (months) without coming back to base station for recharging.
- An **action camera** with pan and tilt features sends live video feed over the internet to the base station. The boat can be controlled using **an app or a webpage**. It is expected to be manufactured at a low cost and multiple such USV can work in Collaboration to handle Disasters at waterbodies.

SMART DUSTBIN (Independent project):

2021

- Created a **smart dustbin** using concepts of IOT(Internet of things). It provides help to **create cleaner, safer and hygienic environment**.
- **Automatically** opens the lid of the dustbin when someone approaches to throw something in the dustbin. Otherwise, the lid stays closed.
- This dustbin uses **ultrasonic distance sensor and servo motor**. The main controller is **Arduino UNO** which is the main connection for all the components.
- A **LED light** is attached at the lid of this dustbin. This stays blue when there is space to throw waste, and it turns red when the dustbin is more than 70% full as a **prevention of overload**.

PROGRAMMING SKILLS

- **LANGUAGE:** C, C++, PYTHON, JS, JAVA, HTML5, CSS3, MATLAB
- **FRAMEWORK:**
BACK-END: NODE-JS, EXPRESS-JS, SPRING BOOT
FRONT-END: REACT NATIVE, ANGULAR
- **DATABASE:** MONGODB, SQL, MYSQL
- **SUBJECT:** DS, DBMS, OOPS, IOT

CERTIFICATIONS

- **MATLAB Fundamentals with Arduino Integration** – MYWBUT, 2019
- **Programming with Python** – INTERNSHALA, 2021
- **Responsive Web Design: HTML5 + CSS3 for Entrepreneurs 2018** – UDEMY, 2022
- **JavaScript Basics for Beginners** – UDEMY, 2022
- **JavaScript JSON AJAX API data for web pages Objects Arrays** – UDEMY, 2022
- **Java Programming Masterclass covering Java 11 & Java 17** – UDEMY, 2022

ACHIEVEMENTS AND AWARDS

- **Coordinator:** Worked as organizer and **various HETC college events** from 2017-2021, including **Tech. Fest & Cultural Fest**. Also worked as a **coordinator in Art Carnivals** in college days.
- **Membership:** Member of the **IEEE organization** since 2017.
- **Hobbies:** Completed **fifth year of Painting** under **Sarbabharatiga Sangeet & Sanskriti Parishad**. In addition to, secured second rank in Durga Puja Painting competition in 2019 held in Hooghly. Participated in **Art Forum** held in Chinsurah, 2022.
- **Sports:** Won **1st prize** in Badminton Tournament in **School in 2014**. Practicing **Yoga** since 2016 and a member of **Duke Club Committee** for last two years.
- **Volunteer:** Volunteered at **Sishuseva Society** (an orphanage). Taught subjects such as **Mathematics and Science** to youngsters. Helped Spread awareness on **Women Empowerment and Save Girl Child by Protest March** in Chinsurah.