# DIBYENDU BISWAS

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## INTERNSHIPS

**SDE Intern | Disney + Hotstar** — May - July '22
- Developed an Admin portal using **React JS** that enabled users of a community to access a range of features.
- Incorporated **gamification features** in the Admin Dashboard, such as rewards, leaderboards, badges, and challenges, to incentivize engagement and participation within the community or group.
- Designed the UI for the admin portal using **Figma**, ensuring it was user-friendly and met the company's requirements.
- Implemented necessary **APIs** to save data in the backend, using **Node.js** and **AWS** to create an efficient system.
- Presented the admin portal to the Senior management team, demonstrating its features and capabilities and receiving positive feedback on its design and functionality.

**SDE Intern | InstaSell** — Dec '21 - Feb '22
- Developed multiple Android App features using **React Native** with complete Ownership.
- Collaborated with a team of four developers and designers to deliver features on time and within budget.
- Detected and resolved multiple Android app and website **bugs** with an 80 % accuracy rate.
- Developed multiple **APIs** utilizing **NodeJs** in Backend, improving mobile and email notifications.
- Created the Landing page of the company using **React js** and **Next js** and various libraries such as **Tailwind CSS**.

**Backend Intern | Fintract Global** — April - June '21
- Developed a trading platform **Finaytics** that allows investors and traders to visualize stock, crypto and prediction data.
- Delivered the **RESTful APIs** using the **Django-rest-framework** for the interactive trading platform.
- Collaborated with AWS developer and successfully deployed the rest APIs on **AWS Elastic Compute Cloud** instance.
- Added the **basic authentication** for Security on all the APIs, which would be accessed only by using admin credentials.
- Documented all the APIs along with the **MongoDB** database configuration and .env file configuration (Security Keys).

**IOT Intern | ShunyaOS** — Aug - Oct '20
- Implemented and Improved Capture, Store and Display video functionality with the help of **OpenCV** and **Qt5** libraries.
- Constructed **CPP wrappers** for C library and Python wrappers for C++ library using **Pybind11** for Shunya Interfaces.
- Formatted all the codes in **doxygen** coding format and documented all the codes using flowcharts and pseudocode.

## PROJECTS

**Resume Builder** — April - May '21
- Utilized **django framework** to develop a full stack website for students to login/signup and create multiple resumes.
- Created the front end of the website using **html, CSS and javascript** languages and designed the logo using Photoshop.
- Integrated the frontend and the backend, then migrated all the django models to **PostgreSQL** database in Heroku.
- Successfully deployed the fully functioning website on **Heroku Cloud Application** platform to get it live and running.
- Documented the project in **markdown** document format, also mentioning the architecture of the django project.

## EDUCATION

| Degree | Institute / Board | Year | CGPA / % |
|---|---|---|---|
| B. Tech in ELECTRONICS & ELEC. COMM. ENGG. | IIT Kharagpur | 2019 - 2023 | **8.51/ 10** |
| Vidya Niketan Junior College | SSC | 2019 | **78 %** |
| Kendriya Vidyalaya IIT Powai | CBSE | 2017 | **10 / 10** |

## SKILLS and EXPERTISE

**Languages/ OS** : C, C++, Python, UML, HTML, CSS, Javascript, LaTeX, Markdown, Windows, Ubuntu

**Tools** : Git, VSCode, Postman, Vim , Matlab, Docker

**Libraries/Framework/SDK** : C++ STL, NumPy, Pandas, PyTorch, Matplotlib, React, Django, React Native, Node Js, OpenCV, Express Js

**Soft Skills** : Teamwork, Time Mangement, Decision making , Leadership, Consistency

## AWARDS and ACHIEVEMENTS

- Secured a rank of **784** among 15000+ candidates in the **Google Kickstart** Round B organized by Google — **2021**
- Cleared Qualification round of **Code Jam** and achieved a rank of **2838** out of **25961** candidates in Round 1 — **2021**
- Worked my way upto **Specialist** on codeforces and accomplished maximum rating **1518** ( **Arigato07** ) — **2021**
- Accomplished a rank of **220** among 13000+ participants in division 3 round 725 on the codeforces contest — **2021**

## COURSEWORK INFORMATION

Programming and Data Structures (lab theory), Introduction to electronics (lab theory), Digital Image Processing, Secure Communications, Economics, Microcontrollers, AI and Ethics, Financial Risk Management