ANINDYA KUNDU

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EXPERIENCE

APR 2021 — PRESENT | *Sorcero*

- Full-stack developer in *Product Discovery* cycle
- Built several *iterative prototypes*, *no-code tools*, and *proof of concept (PoC) applications* of prospective product ideas
- Built several *demo applications* to showcase *prospective SASS product capabilities* to potential B2B clients

🔗 SUGAR LABS (OPEN SOURCE ORGANISATION)

OCT 2020 — PRESENT

Leading the development of **Music Blocks (v4)**, a foundational rebuild of *Music Blocks* (*v3*) — this will *address several shortcomings* of the app, implement a *dynamically pluggable architecture*, use a *modern tech-stack,* and have *better Interaction Design*.

🔗 GOOGLE SUMMER OF CODE 2020

MAY 2020 — AUG 2020 | SUGAR LABS

- *Refactored* components to **ES6+** standard
- Restructured components to *implement* a semi **"Model-View-Controller (MVC)"** architecture
- Conceptualized a *framework (**ES6 promises** based)* to implement a *JavaScript* based syntax to write *Music Blocks* programs in
- Crafted a **Data Structure** to represent programs
- Implemented *algorithms* to generate a tree of *JSON* objects representing *ES8/ES2017 ESTree* **Abstract Syntax Trees**, and *serialized* them into **JavaScript ES8** code

TECHNICAL PROFICIENCY

PROGRAMMING LANGUAGES:

TypeScript, *JavaScript*, *Python*, *Rust, Java, C, C++*

WEB STACK:

HTML5, CSS3/SASS3, JavaScript ES5-ES9, TypeScript 4 experience with *React, Vue, Redux, Express, FastAPI* foundational knowledge of *REST, GraphQL, RabbitMQ* familiar with *Progressive Web Apps* and *Web Assembly*

DATABASES, CACHES, AND QUERY LANGUAGES:

SQL/PLSQL, PostgreSQL, MongoDB, Redis, Cassandra

TOOLS, TECHNOLOGIES, AND PRACTICES:

Git, Linux Command-line & *BASH, GitHub CI/CD, Docker, Kubernetes, Jest, Cypress, Webpack, Vite, Markdown, Wireframing, SVG designing, LaTeX*

🔗 NOTABLE PERSONAL PROJECTS

List of projects: *meganindya.github.io/#/projects*

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY

MS IN COMPUTER SCIENCE | JAN 2023 —
ASYNCHRONOUS MASTERS DEGREE PROGRAM

Specialisation in *Computing Systems*

INDIAN INSTITUTE OF ENGINEERING SCIENCE AND TECHNOLOGY, SHIBPUR

BTECH IN INFORMATION TECHNOLOGY | 2017 — 21

CGPA **9.37/10**, class position **2**

INTERESTS

INTERACTION DESIGN, INTERACTIVE MEDIA
VISUAL PROGRAMMING, CREATIVE CODING

🔗 ACTIVITIES & ACHIEVEMENTS

Mentored 7 *Google Summer of Code (2021, 22)* projects on *Sugar Labs'* **Music Blocks**.

Selected for **India-Japan International Linkage Degree Program (ILDP) Internship 2020** at *Hiroshima University*, to work on "*Semantic Segmentation and Lane Detection in Urban Traffic Scene*". (*cancelled due to COVID-19*)

Presented a *technical paper* on "**A Networking Scheme implementing IT on Power Distribution Lines**" at the *CESC Knowledge Carnival '19*, and was awarded 1st *Runners Up*.

Participated in *IIT Kharagpur's* open-source development event **Kharagpur Winter of Code (KWoC) 2019**, mostly contributing to *web-based projects*.

Built the *website* for **ICMC 2021** conference held at *IIEST Shibpur*.

🔗 EXTENDED COURSEWORK

(*BTECH FINAL YEAR PROJECT*) Worked on an *Image Processing* project for **Image Splicing Detection and Localisation**.

(*5TH SEMESTER MINI PROJECT*) Developed the prototype of a **Fingerprint-based Biometric Voting Machine** using two *Arduinos* communicating over an I^2C communication channel.

Authored *MATLAB* programs to implement different *encryption & decryption schemes* on grayscale images, based on some research papers in **Secret Sharing** and **(2, n) Visual Cryptography**.

INDEPENDENT COURSEWORK

DEEP LEARNING — DEEPLEARNING.AI (COURSERA)