SHUBHRAJYOTI DEY

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Education

Indian Institute of Technology (BHU), Varanasi   **2020 - 2025**
Integrated Dual Degree in Mathematics and Computing   *CGPA - 9.16*

Work Experience

Google Summer of Code (*Link*) (*GitHub*) (*Documentation*)   **May 2022 - Sep 2022**
*Open Source Student Develope at **Global Alliance for Genomics and Health***
- Developed a **dynamic conditional form builder** using tree data structure following the **GA4GH standards**
- The end product will become a **standard** for **genomics data collection**   .
- **Technologies Used: ReactJS, ReactDND, Formik**

NiYO Solutions   **Nov 2021 - Feb 2022**
Software developer Intern
- Worked on **auto-debit** feature based on **event-driven architecture** and NestJS as backend
- Implemented a **SMS feature** backend and used **AWS S3**. Deployed the **microservice to Kubernetes** and exposed its endpoint with **Kong**.This service **increased the personalisation to the customer** by **12%**
- **Technologies Used: NestJS, AWS S3, Kafka, Typescript, Kubernetes**

MentorPlus (*Link*)   **Jul 2021 - Oct 2021**
Frontend Developer
- Designed the **frontend architecture framework** of MentorPlus and developed the frontend of the webapp.
- Used **NextJS** for **SSR** and **SEO** Optimisation.Applied code splitting which **improved the loading time** by **13%**.
- Developed **RTC** using **AgoraSDK** and **PubNub**.This **increased the user engagement** in the site by **31%**.
- **Technologies Used: NextJS, AgoraSDK, PubNub, Javascript, Axios**

Akshay India Enterprise   **Oct 2021 - Dec 2021**
Frontend Developer
- Developed a **traffic light monitorization service** (a GOI collaboration) and an **Inventory management service**.
- **Technologies Used: ReactJS, Javascript, Typescript, Redux-Saga**

Projects

Training and Placement Cell App IIT BHU   **Aug 2022**
- Developed a full fledged **automated Attendance Management system** for **Internship and Placement** season.
- Backend is developed using **NodeJS** and **Google Auth** is integrated for **easier and safer login** experience
- Its is being **currently used** as a **mode of attendance taking** for over **3000 students everyday**.
- Developed an **automated mailer** to distribute **auto-genererated Attendance Card** to students using **Gmail API**
- Developed a **scalable fault tolerant** backend which handles **over 10,00,000 requests** per month
- Developed more advanced features for the **internal working** of TPC which improved the efficiency of **TPC** by **24%**
- **Technologies Used: AWS ElasticBeanstalk, MongoDB, React Native, Expo, NodeJS, ExpressJS**

College Community | (*Link*) (*Backend*) (*Frontend*)   **Jan 2022**
- A full fledged **social media** using **ReactJS as frontend** and **NodeJS and ExpressJS as backend.**
- **MongoDB** is used as a Database and **Firebase Storage** used as a **cloud storage**
- All user sensitive credentials were stored using **BCryptJS** encryption and **JWT** is used for user authentication
- **Technologies Used: MongoDB, ReactJS, NodeJS, ExpressJS, Firebase, Typescript**

Sahayak Discord Bot | (*Github*)   **Jun 2021**
- **Discord bot** using python which **notifies subscribed users** at a set interval of time about the **availability of nearby vacant vaccine centers**.Data was **scraped** from the **Co-Win website**
- **Technologies Used: Python, Selenium**

Technical Skills

Languages: C++, HTML, CSS, JS, Typescript, Java, Python
Technologies/Frameworks: ReactJS, React Native, NodeJS, ExpressJS, NestJS, NextJS, Redux, Socket.IO
Database: MongoDB, FirebStore, SQL
Deployments:AWS, Google Cloud Platform, Heroku, Vercel, Netlify

Achievements

- Completed **Google Summer of Code (GSoC) 2022** as a **student developer** .
- **Lead Developer** and **Gold Medalist** at **Inter IIT Tech Meet 11.0**   .
- Achieved **1015** global rank in **Google HashCode (192 in India)**.