# Md Shirsho Dipto Haque

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——Skills-									

Programming Languages: HTML, CSS, Javascript, NodeJS, Python, C++ | Frameworks: ReactJS, ExpressJS | Database: MongoDB Miscellaneous: Git, Github, Redux, Webpack, Socket.io, Jest, Mapbox, Material UI, NumPy, Fly.io, Netlify, Google Cloud, Linux Computer Science: Data Structures and Algorithms, Systems Programming, Probability for Computer Scientists.

·Projects-

### **Geopolicy Analyzer**

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JavaScript, HTML, CSS, Webpack, MapboxGL, Mapbox Studio

- Developed an interactive, data visualization map showcasing conflict zones and energy pipelines around the world, revealing crucial geopolitical insights.
- Added rich interactivity, allowing users to zoom in, pan, tilt, navigate, and click to access detailed information about map data.
- Designed the app in a flexible manner, allowing easy insertion of additional data to the map for further contribution.
- **Utilized by an online institution** to teach international policies to its students.

#### **NoseBook**

ReactJS, ExpressJS, NodeJS, MongoDB, Socket.io, PassportJS, Material UI, Google Cloud, Cloudinary

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- Developed a full-stack Facebook and Messenger clone, featuring all the core functionalities including posts, comments, likes, friend requests, real-time notifications, real-time messaging, and a wide range of other features.
- Created two backend servers—one for handling API requests and the other for handling Socket.io events.
- Implemented username/password-based authentication and Google authentication system using PassportJS, BcryptJS, JWT, and Google Cloud Platform.
- Utilized Socket.io to add real-time functionalities, such as real-time notifications (posts, friend requests, messages), online/offline friends, instant messaging, and a continuous typing indicator that functions better than that of Skype and Telegram.
- Utilized full-text search index of MongoDB, allowing users to search for other users' accounts.
- Employed Cloudinary for storing images (post images, profile pictures, and cover pictures).
- Hosted the main API server on Google Cloud's App Engine Application Platform.

#### **Blog App**

ReactJS, ExpressJS, NodeJS, MongoDB, TinyMCE, PassportJS

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- Developed a full-stack personal blog for posting stories and allowing other users to like and comment on them.
- Integrated advanced text editor features with **TinyMCE**, allowing the addition of images, tables, and iframes.
- Implemented a **RESTful** API using Express]S for smooth CRUD operations from the client interface.
- Followed MVC architectural pattern, ensuring a flexible and maintainable codebase.

**Portfolio** ReactJS, EmailJS

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Section Leader, Mentor

- Built a fully responsive portfolio website for myself.
- Utilized JavaScript intersection observer to animate components upon scrolling.

# -Work Experience-

## Code In Place, Stanford University

2023 Mar - 2023 Apr

Remote

- Worked within a large teaching team to ensure the effective delivery of the curriculum teaching the fundamentals of programming to nearly 500 students.
- Led a specific section comprising a diverse group of 10 students, providing personalized guidance and mentorship throughout their journey.

—Education-

# **B.S. Chemical Engineering**

Shahjalal University of Science and Technology

2017 Apr - 2021 Aug Sylhet, Bangladesh

Languages: Bangla (Native), English (Second Language | SAT: 1490/1600), Hindi (Conversational)