

Md. Jubayer Hossain

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EDUCATION

Jagannath University

Master of Science in Microbiology

Dhaka, Bangladesh

Running

Jagannath University

Bachelor of Science in Microbiology

Dhaka, Bangladesh

Jan 2020

KEY SKILLS

- **OS and Environment:** Linux(Ubuntu, Ubuntu MATE, Raspberry Pi), Windows, Jupyter Notebook, RStudio, VSCode, Atom
- **Programming Languages:** Python, R, SQL, C, JavaScript
- **Data Management:** NumPy, Pandas, dplyr
- **Data Visualization:** Matplotlib, Seaborn, Plotnine, Plotly, ggplot2
- **BioStack:** Biopython, Scikit-bio, BioPandas, Biotte
- **Document Preparation:** Markdown/Rmarkdown, LaTeX, Microsoft Word, Microsoft Powerpoint
- **Bioinformatics Tools:** FastQC, MultiQC, MEGA10
- **Dashboard:** Streamlit, Dash, Dash-Bio

ACADEMIC PROJECTS

Public Perception on the Spread of Antibiotic Resistance in Bangladesh

Ongoing

- Assess the possibility of success of the anti-microbial stewardship program.
- A preliminary study would show knowledge about a global issue among graduates.

Common Epitope Prediction between Dengue and SARS-CoV-2

Ongoing

- Prediction of MHC-I and MHC-II binding both Dengue and SARS-CoV-2
- Identify the common Epitopes between Dengue and SARS-CoV-2

EXPERIENCE

Health Data Research Organization

Dhaka, Bangladesh

Founder and Management Lead

June 2020 - Present

- Designed and built the first version of infrastructure code base which built the entire environment of SDLC at runtime. This reduced the development teams' monthly expenses on AWS servers by 100 thousand dollars.
- Designed and a centralized build strategy for all the software components of our client. The monolithic design of our build module brought new business to TCS

Volunteer

Bio-Bio-1, Dhaka, Bangladesh

- Built a continuous delivery model for my client's Development Team.
The incremental development method reduced three-man days of development time on a 14-day sprint.
- Created Production like testing environments in AWS Cloud for sprint teams to enhance test-driven development. The new process promoted quality development culture. The number of defects were reduced by one-fifth. The time saved in fixing bugs increased the development time by 15

Certifications

- Programming for Everybody (Getting Started with Python)
- COVID19 Data Analysis Using Python
- The Data Scientist's Toolbox
- Create Interactive Dashboards with Streamlit and Python
- Essential Epidemiologic Tools for Public Health Practice
- Data Visualization with Plotly Express
- Spreadsheets for Beginners using Google Sheets
- Exploratory Data Analysis with Seaborn
- Statistical Data Visualization with Seaborn
- Analyze Box Office Data with Seaborn and Python