

Md. Tarek Hossain

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I am a tech enthusiast, a generalist graduate, explored a lot of **abstraction layers** of CS and prefer to stay in the bottom layers, away from the general users and closer to the system. I find how two abstraction layers communicate with each other (IPC, API, RPC etc) interesting. I believe 90% of our daily problems can be solved using good communication!

Education

- Dhaka University of Engineering & Technology, Gazipur** *March 2019 – June 2023*
 - BSc, Computer Science and Engineering

Work Experience

- Associate DevOps - Therap BD Ltd.** *August 2022 - Now*
 - [Therap \(BD\) Ltd.](#) is a US-based Software Company registered in Bangladesh, operating since 2004. Therap provides Software as a Service (SaaS) to government and private organizations globally that serve people with intellectual and developmental disabilities.
- Backend Engineer - TicketBD** *February 2016 - 2017*
 - [TicketBD](#), lauched on Sayedabad, Dhaka to sell bus tickets. **Designed** and **implemented** this PHP backend application, handled multiple buy requests to the same "bus seat" using caching. Worked here when I was in college.

Technical Skills and Projects

- Algorithmic **Problem Solving** ([400+ and counting](#)), InfoSec **Security Contests** ([dovi-0x06 @THM](#)), C + + , Python, GNU/Linux systems (5+ years), Web Frameworks / MVC architecture, Apache, Git, OSI Layers, Database & DBMS. I notice and enjoy other’s design choices (UI/UX, System Architecture, Typography etc)
- Projects:** A lot of projects to understand various abstraction layers of Operating Systems such as:
 - Linux Virtual File System:** [Sec Fs](#), that encrypts file contents in every write request
 - Github Clone:** [Gitbucket](#) - that lets us clone over http
 - Browser Extensions:** [Youtube Research Mode](#), MS Outlook [desktop and web app extension](#)
 - Local Network File Servers, Android OS Daemons, **Linux CLI** tools etc
- Writing:** I write and investigate about **Systems, System Architecture, GNU/Linux, Software Daemons, File Systems** (undergrad thesis on file systems on user space), **Syscalls** (strace!), Infosec, [Computer Networks and the Internet](#) on my free time

Leadership Experiences (selected)

- Vice President - DUET Computer Society** *July 2021 - June 2022*
 - I managed and moderated DUETCS organization online repositories and profiles on [Github](#), [Website](#), [LinkedIn](#) and hosted offline events
- Senior Vice President - DUET Sports Club** *July 2021 - Jan 2022*
 - Organized several inter-department Cricket and Football tournaments, learned how tough it is to finish a sports tournament in a chaotic setting like south asia

Awards and Certifications

- ITEE, Level 2 - FE, Full Pass, Examinee No: FE01-0644** (Nov 2021, Information Technology Engineers Examination - ITEE is the national level IT Engineers Examination governed by **IPA, Japan**, considered as the IELTS of CS). Here’s a [demo question](#).
- Champion of Intra-DUET English Olympiad** (2019, Became the champion of Intra-DUET English Olympiad held by English Language Club, DUET)

Field of Interests

- Computer Systems, Core CS, World Peace, Mass/Public Education, [Visual Communication](#), Animal Conservation (Volunteered for a year at [Creative Conservation Alliance](#), [Turtle Conservation Center](#), [Bhawal National Park](#) in this lockdown), Sports and Poetry, Chess, Math, Online forums (Hacker News, Reddit), Local and Global Economy and anything that stirs the intellectual interest