MD. FARSHID HOSSAIN

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EDUCATION

Jadavpur University - Information Technology Department	**July 2022 - July 2026**
*Information Technology - **CGPA** - **8.11***	*Kolkata, India*
South Point High School - Physics, Chemistry, Mathematics, Computer	**May 2020 - June 2022**
*Higher Secondary Examination- **Overall Percentage** - **91%***	*Kolkata, India*

SKILLS SUMMARY

Programming Languages: C, C++, Java, Python, HTML, CSS, JavaScript, TypeScript, MongoDB, PostgreSQL
Frameworks/Developer Tools/DevOps: ReactJS, Redux, NextJS, NodeJS, ExpressJS, Git, GITHUB, VS Code, Docker, Kubernetes, Android Studio, Virtual Machines, Redis, System Design
Operating Systems: Windows, Ubuntu Linux, Kali Linux, Metasploitable
Machine Learning: ML Algorithms, Jupyter Notebook, Supervised and Unsupervised Learning, Numpy, Pandas, Scikitlearn, Matplotlib, Deep Learning, Natural Language Processing

EXPERIENCE

Full Stack Web Developer - Zorrro Deliveries Pvt. Ltd. ⬈	**10 March 2025 - 10 June 2025**

Offer Letter: ⬈ *PaySlips for the 3 months:* ⬈ *Certificate of Experience:* ⬈

* developed entire frontend of UDIN project, provided by Government of West Bengal (client).
* staging.wb.gov.in FRONTEND–CODE

* handled the entire backend and frontend for the LIMS project provided by the Police Department of West Bengal (client) before providing its further management to the senior developers. BACKEND–CODE FRONTEND CODE

PROJECTS

Kepler 22 B Education Service Website (Full Stack Development) ⬈	**November 2024 - Present**

ReactJS, NodeJS, MongoDB, PostgresSQL TypeScript, Redux, Redis, JWT, Docker, IDE

* Developed edtech course selling website, modern technologies for security, optimization, UX.
* Provided memberships, chat, meeting, IDE, library, leaderboard/dashboard, automated course selling and course verification mechanisms, tested, consistent cross-browser functionality.
* Implmented OTP, email verification, Google OAuth security, reducing unauthorized access enhancing security, admins track, manage, remove students using 3-layer control abstraction.
* Built a group chat, meet, library consisting 100+ resources, dedicated to all courses/batches
* Prevented resources access outside, website, enhancing security significantly by 50%
* Created Live Coding IDE, instant code checking using Judge0 code compiler and runner.
* Maintained leaderboard for students to compete among peers, KeplerLives - virtual coins - collected by solving Daily Problems to avail future discounts.
* Used Razorpay, live payment gateway, automated checks preventing false payments, course study without payment and accessing paid resources without payment.
* Applied accessibility and performance improvements through 10+ developer review sessions
* https://kepler-22b.vercel.app FRONTEND–CODE BACKEND–CODE

Judge0 Code Runner (DevOps) ⬈	**June 2025 - Present**

Docker, Shell, Bash, C, C++, Java, HTML, PostgresSQL, Redis, Kubernetes, Containers

* Containerized code runner for 52 programing languages, with both compilation and execution.
* Created independent containers for every programing languages for their specific code running.
* Used Bullmq and cron jobs to mimic Operating System behavior by creating batch jobs.
* Code, language, input stores in Redis, output stored in Postgres, polling maintains consistency
* Image of every compiler creates compilers image, compilers image creates landing code runner.
* Compilers FRONTEND–CODE Landing Code Runner BACKEND–CODE Used in Kepler22B IDE to execute code

RELEVANT COURSEWORK

Data Structures & Algorithms | Machine Learning | Computer Networks | OOPS Concept | Web Development | Database Management System (DBMS) | Operating Systems | Software Engineering | Artificial Intelligence | Cloud Computing | Computer Organization & Architecture

LINKS

LEETCODE – https://leetcode.com/mdf$_h$ossain - More than 400 problems solved

GEEKS FOR GEEKS – https://www.geeksforgeeks.org/user/hossainf6s15/ - More than 550 problems solved