Doniel Tripura

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📍 Khagrachari, Chittagong, zip-4420, Bangladesh

OBJECTIVE

Seeking a challenging position in computer science to leverage my expertise in problem solving, software development, data analysis, and machine learning. Aiming to contribute to innovative projects at the intersection of artificial intelligence and data-driven solutions in fields such as cybersecurity, cloud computing, and human-computer interaction.

EDUCATION

- **Khulna University of Engineering & Technology** *February 2020 - March 2025*
  BSc. in Engneering Khulna 9203, Bangladesh
  ◦ GPA: 3.70/4.00

- **Khagrachari Cantonment Public School & College** *September 2019*
  Higher Secondary Certificate Khagrachari, Chittagong, Bangladesh
  ◦ Grade: 5.00/5.00

- **Khagrachari Govt. High School** *December 2017*
  Secondary School Certificate Khagrachari, Chittagong, Bangladesh
  ◦ GPA: 5.00/5.00

HONORS AND AWARDS

- **Dean's Award** *2019 - 2020*
  Faculty of Electrical and Electronic Engineering (EEE), KUET [🌐]
  ◦ Awarded for outstanding academic and extracurricular achievements in the *Computer Science and Engineering (CSE) department* under the EEE faculty.
  ◦ Recognized for exceptional performance, dedication, and contributions to the university community.

ACHIEVEMENTS

Ranked 5th - PSTU IT Carnival Programming Contest 2024	**November 2024**	🌐
Ranked 35th - Khulna Regional Inter University Programming Contest 2024	**November 2024**	🌐
Ranked 59th - UIU Inter-University Programming Contest 2025	**January 2025**	🌐
Ranked 170th - ICPC Dhaka Regional 2024 - DIU	**January 2025**	🌐
Ranked 21th & 20th - Intra KUET Programming Contest 2022 & 2023		
Selected as one of the Top Teams - BitFest KUET Datathon 2025	**January 2025**	🌐
Specialist - Codeforces (Max Rating: 1501)		🌐
3 Star - CodeChef (Max Rating: 1766, Country Rank: 294, Global Rank: 7278)		🌐
Ranked 3rd - Science Olympiad 2019, by BAS-FSIBL		
Second Runner Up - Quiz Competition on, Digital Udbhaboni Mela 2018		
Second Runner Up - Math Olympiad 2012, Category: Primary		

EXPERIENCE

Ostad - Teaching Assistant (Remote) - Coding Interview Preparation **January 2025 - Present** 🔗

- Assisted students in preparing for coding interviews.

- Developed and facilitated practice sessions focusing on data structures, algorithms, and problem-solving techniques, enhancing students' confidence.

- Conducted individual and group assessments, identifying key areas for improvement and providing tailored feedback to optimize learning outcomes.

- Organized mock interview sessions, receiving positive feedback from participants for effectiveness and relevance in real-world interview settings.

SKILLS

- **Programming Languages:** C, C++, Python, Java, Swift
- **Web Technologies:** HTML, CSS, Bootstrap, React, PHP, Laravel
- **App Development & Frameworks:** Java, XML, Swift, SwiftUI
- **Database Systems:** Firebase, Oracle, MySQL
- **Data Science & Machine Learning:** TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib, PyTorch
- **DevOps & Version Control:** Git, Docker, GitHub Actions
- **Specialized Area:** Computer Graphics, Image Processing, Natural Language Processing (NLP)
- **Tools & Technologies:** VS Code, Android Studio, XCode, Figma, Postman
- **Research Skills:** Literature Review, Data Collection, Statistical Analysis, Academic Writing, Experiment Design, Technical Documentation

PROJECTS

Foodier - A dual iOS app project focused on a Food Management System   **September 2023 - January 2024**

- Designed an order queue management component, streamlining the processing of orders at various stages.
- Implemented Firebase Firestore for seamless data synchronization, achieving a 50% faster order update time.
- Created a custom SwiftUI user interface, ensuring a visually appealing and intuitive user experience.
- Developed a dynamic HomeView system enabling personalized restaurant and menu exploration for users.

KUET-BANK - An Android project based on Bank Management System   **September 2022 - January 2023**

- Developed a secure login and registration system with email verification and OTP authentication.
- Implemented a transaction management system for real-time user-to-user money transfers with minimal latency.
- Built a loan application and EMI payment system, streamlining financial operations for customers and admins.

KUET-BANK - A web-based Bank Management System   **February 2023 - February 2024**

- Developed a secure login and registration system with email verification and OTP authentication.
- Implemented a transaction management system, processing real-time customer-to-customer transfers.
- Created an employee management dashboard for bank staff to manage customer accounts.
- Built an admin panel for data analysis and reporting.

DoRa Block Battle - An interactive AI-based game   **July 2022 - September 2022**

- Developed an interactive game interface using Tkinter with single and multiplayer modes.
- Integrated AI algorithms (MinMax, Alpha-Beta Pruning, Genetic Algorithm, A*) for strategic gameplay.
- Designed adaptive gameplay that adjusts difficulty based on player actions.
- Conducted performance analysis to optimize AI decision-making efficiency.

Heart - An Android application for patient heart rate data   **September 2021 - December 2021**

- Developed an Android app to store and manage patient heart rate data.
- Integrated Firebase for real-time data storage and management.
- Implemented search functionality for patient record retrieval.
- Designed an intuitive user interface for seamless navigation.

Night Security Light - An Arduino-based security system   **March 2022 - May 2022**

- Designed an automatic night security light system using Arduino Uno and motion sensors.
- Integrated a PIR sensor for movement detection and an LDR for ambient light measurement.
- Implemented a Bluetooth module for remote control of the system.

Alphabet-Detection - An Image Processing project for detecting English alphabets   **March 2023 - October 2023**

- Developed an image processing system to detect and recognize English alphabets.
- Implemented computer vision techniques to improve accuracy in alphabet identification.
- Optimized processing speed for real-time applications in text recognition.

Automatic Bill Generator - A desktop app for KUET teacher's bill calculation   **September 2022 - December 2023**

- Built a desktop application to automate KUET teacher's payment calculation based on their departmental activities.

- Designed a data-driven calculation engine to streamline the payment process.
- Integrated report generation for accurate payment summaries.

Auto Birthday Wisher - A Python program to send automatic birthday wishes   **January 2023 - February 2023**   ⭘

- Developed a Python script to automatically send birthday wishes via email or messaging apps.
- Integrated cron jobs and scheduling for timely execution.
- Used database storage for managing contact lists and birthdays.

Hospital Management System - A website for hospital management   **February 2023 - September 2023**   ⭘

- Developed a hospital management system using Laravel, PHP, MySQL, and Bootstrap.
- Implemented patient record management, appointment scheduling, and billing modules.
- Designed an admin panel for staff and hospital administrators to track hospital activities.

Kokborok Compiler - A compiler for the Kokborok(Tripura) language   **September 2021 - December 2021**   ⭘

- Developed a compiler for the Kokborok language as part of a Compiler Design course.
- Implemented lexical analysis, syntax parsing, and semantic analysis.
- Designed a custom language structure to support various programming constructs.

LEADERSHIP EXPERIENCE

General Member - Special Group Interested in Programming Contest (SGIPC)   🅕

- Enhanced problem-solving and analytical skills by participating in competitive programming discussions.
- Developed communication, teamwork, and networking skills through collaboration with peers.

Content and Training - LOOP, Control Engineering Club   🅕

- Developed training modules and created content for programming and control engineering education.
- Provided mentorship and leadership in training sessions for community engagement.
- Assisted in event coordination to foster learning and collaboration.

VOLUNTEER EXPERIENCE

Event Organizer - BitFest 2025, 3rd KUET CSE National Festival   in

- Organized the Inter-University Programming Contest (IUPC) at BitFest.
- Developed team management and communication skills through event planning and coordination.

ADDITIONAL INFORMATION

Languages:

Bangla (Native)

English (Intermediate)

Hindi/Urdu (Basic)

Interests:

- Competitive Programming
- Software Development
- Artificial Intelligence & Machine Learning
- Image Processing & Computer Vision
- Computer Graphics