Mirza Mahrab Hossain

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EXPERIENCE

• **Pipeline, Inc [🌐 ppln.co]**   *February 2025 - Present*
AI Engineer Intern   *Dhaka,Bangladesh*
  ◦ Develop and maintain Machine Learning Models and Algorithms
  ◦ Develop and maintain AI agents

PROJECTS

• **Hive Chat App [🚀 Live Demo]**   *April 2024*
Tools: MERN Stack (React, Node.js, Express, MongoDB), Socket.io, Chakra UI   [⬡ Link]
  ◦ **Brief Description:**
    ∗ Built a chat platform with real-time messaging using Socket.io.
    ∗ Developed sign-up/login, group chats, and notifications with Chakra UI for responsive design.
    ∗ Integrated MongoDB and Mongoose for scalable data management.
    ∗ Deployed on Render for live access.

• **NIDS-Machine-Learning**   *August 2023*
Tools: Python, scikit-learn, Pandas, Numpy, Matplotlib, Seaborn, NSL-KDD Dataset   [⬡ Link]
  ◦ **Brief Description:**
    ∗ Developed NIDS using machine learning (Decision Tree, Random Forest, etc.) to detect network anomalies.
    ∗ Optimized dataset (NSL-KDD) with feature selection and preprocessing techniques.
    ∗ Evaluated models with precision, recall, and F1-score, visualized with Matplotlib and Seaborn.

SKILLS

• **Languages:** Python, C/C++, JavaScript, TypeScript, SQL, BASH
• **Frameworks:** Tailwind CSS, React, Node.js, Express, Remix
• **Tools:** Git, Linux (Arch), Docker, Jira, CI/CD, JWT, VSCode, Vim
• **Soft Skills:** Time Management, Critical Thinking, Teamwork and Collaboration

EDUCATION

• **BRAC University**   *Spring 2021 - May 2025*
Bachelor of Science in Computer Science   *Dhaka, Bangladesh*
  ◦ **CGPA**: 3.32/4.00 (Last 3 Semester: 3.94)
  ◦ **Notable Courses**: Ethical Hacking, Data Structures and Algorithms, Software Engineering, Computer Graphics
  ◦ **Extracurricular Activities**: Competitive programming, BRAC University Computer Club (Senior Executive), C2SG Research Lab (Research Student).

HONORS AND AWARDS

• **Top 30% Placement in PatriotCTF Cybersecurity Competition**   *September 2024*
George Mason University, Cybersecurity Club (MasonCC)
  ◦ Participated as part of BracU_Cygnus team, placing 392nd out of 1361 teams in a global cybersecurity competition. [🌐 Link]

• **Best Team - Intra University Programming Contest (IUPC), 2022**   *August 2022*
BRAC University
  ◦ Placed 1st in a university-wide contest, solving the most problems among 132 teams.