

# JAID MONWAR CHOWDHURY

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## EDUCATION

**Bangladesh University of Engineering and Technology (BUET)**

February 2020 – March 2025

*Bachelor of Science in Computer Science and Engineering*

## RESEARCH EXPERIENCE

**Prof. Reyhaneh Jabbarvand's Group, University of Illinois Urbana-Champaign**

Urbana, Illinois

*Remote Research Intern*

June 2025 – Present

- Developing a framework to generate semantically meaningful unit tests across multiple programming languages (C, Java, and Python).
- Designed tools and workflows for enhanced test reliability and maximise code coverage.
- Wrote a modular component to provide the agent with multi-language parsing and generation capabilities.
- Implemented a semantic analysis module to deepen the agent's program understanding.
- Conducted evaluations of scalability, reliability and test coverage enhancements.
- Co-authoring a paper on the framework, preparing to-be submitted at **ISSTA 2026**.

**Prof. Anindya Iqbal's Group, BUET**

Dhaka, Bangladesh

*Research Assistant*

March 2025 – September 2025

- Developed an agentic framework that translates natural language test cases into executable Playwright test scripts for Web UI test automation.
- Implemented the Web Agent architecture to enable autonomous Web UI traversal and deployed an end-to-end backend and frontend infrastructure for the research framework.
- Implemented and deployed the end-to-end backend and frontend infrastructure for the research framework.
- Curated a dataset of natural language test cases from real-world websites for evaluation.
- Conducted evaluations of maintainability, robustness, and quality of the scripts against industry-standard tools.
- Co-first authored a paper soon to-be submitted at **FSE 2026**.

## WORK EXPERIENCE

**Yobo AI**

Ontario, Canada

*Remote Software Engineer*

June 2024 – Present

- Developed a voice-based conversational AI agent for automating concurrent task-oriented restaurant operations (delivery, pickup, reservation, FAQs).
- Led the design of a dynamic context injection pipeline that retrieves and integrates specific knowledge into LLMs, enabling efficient querying of large-scale structured databases.

## ACHIEVEMENTS AND AWARDS

**Bangladesh Blockchain Olympiad 2024** | [Link](#)

*Honourable Mention in Both AI Category & Blockchain Category*

September 2024

- Led team to Honourable Mention among 250+ teams by developing an AI-powered health ecosystem featuring machine learning medical diagnosis and empathic AI therapist.
- Designed MEDIBLOC, a blockchain-based medical prescription management system with Attribute-Based Access Control (ABAC) for secure sharing of prescriptions between hospitals, pharmacies, and patients.

**Hello Yobo AI Hackathon 2024** | [Link](#)

*Second Runners up*

May 2024

- Led team to 2nd runners-up position among 50+ teams by developing Athene, an offline Android LLM chatbot using Mediapipe API with 600 tokens/sec inference speed on mobile CPUs.

### Therap Javafest 2023 | [Link](#)

*Top 10 Finalist*

*August 2023*

- Led team to Grand Finale (top 10/150+ teams) by developing a fullstack customer management application using Spring Boot and Angular with AI-powered analytics for revenue tracking and forecasting.

### SUST Technovent 2023 | [Link](#)

*First Runners up*

*January 2023*

- Led team to 2nd runners-up position among 170+ teams by developing a blockchain-based authentication system with RFID technology for vault security. Custom JavaScript blockchain implementation passed 69 test cases.

### HackNSU Season 3 | [Link](#)

*Second Runners up*

*November 2021*

- Led team to 2nd runners-up position among 30+ teams by developing Remedi, a telemedicine platform with AI-powered symptom diagnosis chatbot using Intelligent Machines API.

### Academic Olympiads | [Link](#)

*Physics, Chemistry, Mathematics*

*2017 – 2020*

- Mathematics: First place winner at Jahangirnagar University Maths Olympiad.
- Physics: Translated official Olympiad book (Categories A & B) from Bangla to English; National Round participant (2017-2019).
- Chemistry: Achieved 11th place in National Round competition.

## LANGUAGES

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**English:** IELTS 8.0 (Reading: 8.5, Listening: 8.5, Speaking: 8.0, Writing: 7.5)

**Bengali:** Native Proficiency

## PROGRAMMING SKILLS

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**Languages:** Python, Java, C++, JavaScript, C, SQL, Shell Scripting

**Databases:** PostgreSQL, MySQL, MongoDB, Firebase

**Web Development:** Django, FastAPI, ReactJS, Flask, NodeJS, Spring Boot, HTML, CSS

**Technologies & Tools:** AFL++, KLEE, Logstash, Git, GitHub, Docker, AWS (Amazon S3), Hyperledger Fabric

## REFERENCE

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**Reyhaneh Jabbarvand**

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**Anindya Iqbal**

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