

# Md Nahid Hossain

🌐 [nahid-10.github.io/portfolio](https://nahid-10.github.io/portfolio)

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Dhaka, Bangladesh

## SUMMARY

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Aspiring QA Engineer with Python programming experience and skills in manual and automation testing. Experienced in test case design, defect reporting, and API testing. Strong analytical thinking and attention to detail to ensure software quality.

## EDUCATION

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- **Comilla University** Jan 2020 – Aug 2025  
*B.Sc. in Computer Science And Engineering* CGPA: 3.57 / 4.00
- **Govt. Haraganga College, Munshiganj** 2017 – 2019  
*Higher Secondary Certificate (HSC)* GPA: 4.50 / 5.00
- **K. K. Govt. Institution, Munshiganj** 2015 – 2017  
*Secondary School Certificate (SSC)* GPA: 5.00 / 5.00

## PROBLEM SOLVING & COMPETITIVE PROGRAMMING

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- Solved 800+ problems across Codeforces (Rating: 1083), LeetCode, and GeeksforGeeks. [Codeforces]
- Participated in 50+ programming contests, strengthening problem-solving speed and accuracy.
- Strong understanding of data structures, algorithms, and computational thinking.
- Experienced in translating real-world problems into efficient and optimized code solutions.

## EXPERIENCE

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- **Python Intern (certificate available upon request)** CodeAlpha (Remote)
  - Tested and validated data pipelines and software outputs using Python and Pandas.
  - Automated data checks, identified errors, and ensured correctness of outputs.

## PROJECTS

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- **Manual Software Testing — nopCommerce** [GitHub]  
*Tools: Excel / Google Sheets — Tested Application: nopCommerce Demo Site*
  - Created detailed test plans, scenarios, and step-by-step test cases based on requirements.
  - Performed functional, UI, smoke, and regression testing to ensure software quality.
  - Logged defects with clear descriptions and screenshots to help developers quickly fix issues.
  - Verified fixes and ensured all reported bugs were resolved correctly.
- **API Testing using Postman** [GitHub]  
*Tools: Postman / HTML Report — Tested Application: Restful Booker API*
  - Designed and executed automated API tests for Restful Booker endpoints (Auth, Create, Update, Delete, Get Booking).
  - Implemented assertions for status codes, headers, cookies, response body, and response time validation.
  - Parameterized test data using Postman environment variables and dynamic values.
  - Generated detailed HTML test reports for execution summary, failures, and performance insights.
- **Performance Testing using JMeter** [GitHub]  
*Tools: Apache JMeter / HTML Report — Tested Application: Rokomari.com*

- Designed and executed performance test plan simulating multiple virtual users to assess website scalability.
- Measured response time, throughput, and error rate under different load conditions.
- Analyzed results using Aggregate Report and Summary Table to identify performance bottlenecks.
- Generated visual reports to present test insights and recommendations.
- **Performance Testing using k6** [GitHub]  
*Tools: k6, JavaScript (ES6), CLI — Tested Application: Web APIs / Web Applications*
  - Designed and executed performance test scripts using k6 to simulate real-world user traffic.
  - Configured virtual users (VUs), test duration, and thresholds to measure system behavior under load.
  - Analyzed key performance metrics including response time, throughput, and error rate.
  - Identified performance bottlenecks and stability issues based on k6 test results.
- **UI Automation Testing — Saucedemo using Selenium** [GitHub]  
*Tools: Python, Selenium WebDriver, ChromeDriver — Tested Application: Saucedemo E-Commerce Site*
  - Automated the full user workflow: login, adding products to cart, verifying items, and logging out.
  - Implemented dynamic waits, CSS/XPath selectors, and reusable automation functions.
  - Captured product details and validated UI elements to ensure functionality consistency.
  - Ensured stable execution using undetected\_chromedriver to avoid automation detection.

## TECHNICAL SKILLS

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- **Manual Testing:** Test case design, test scenario creation, requirement analysis, bug reporting, test execution, traceability matrix
- **Testing Types:** Functional, Regression, Smoke, Sanity, UI/UX Testing, Validation & Verification
- **Automation Testing:** Selenium WebDriver, Playwright
- **API Testing:** Postman, Newman, API Assertions, JSON/XML validation
- **Performance Testing:** Apache JMeter , K6
- **Programming Languages:** Python, Java, C++, SQL, HTML5, CSS3
- **Frameworks & Web Development:** Django, Flask (basic)
- **Databases:** MySQL (queries, joins, CRUD operations)
- **QA Concepts:** SDLC, STLC, Test Plan, Bug Life Cycle, Severity/Priority, Test Design Techniques
- **Version Control:** Git, GitHub
- **Tools & Platforms:** Jupyter Notebook, VS Code, Chrome DevTools
- **Operating Systems:** Windows

## CERTIFICATIONS

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- **Full Stack SQA Course — It Training BD** *Ongoing*
- **Learn API Testing with Postman — Udemy** *September 2025*  
 Postman basics, REST API, HTTP methods, status codes, JSON schema, practical API testing.
- **Selenium Python WebDriver Automation — Udemy** *December 2025*  
 Selenium WebDriver, Pytest, XPath/CSS, waits, POM, data-driven hybrid frameworks.

## REFERENCES

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- **Mahmuda Khatun**  
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 Comilla University, Bangladesh  
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