

Niloy Pramanik

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LinkedIn | GitHub | Portfolio



Education

Bachelor of Science in Computer Science and Engineering (B.Sc.) United International University (UIU), Dhaka	Current CGPA: 3.54/4.00 Expected Late 2026
Higher Secondary Certificate (HSC) Saheed Buddhejibi Govt College, Rajshahi	GPA: 5.00/5.00 2020
Secondary School Certificate (SSC)	GPA: 5.00/5.00 2018

Professional Summary

Final-year Computer Science student at UIU with hands-on experience building full-stack web applications and computer vision systems. Currently interning at FlyRank AI, applying machine learning in a production backend environment. Comfortable moving between frontend, backend, and applied AI/ML work; I like taking a project from a rough idea to something people can actually use. Looking for a full-time entry-level software or AI engineering role where I can keep building and learning fast.

Experience

Backend AI Engineer Intern <i>July 2026 to Present</i>	FlyRank AI, Dhaka
Working on backend AI engineering tasks, applying machine learning components within a production backend codebase, in collaboration with the engineering team.	

Projects

HireMe <i>Flask, HTMX, Tailwind CSS, Alpine.js</i>	GitHub
Built a SaaS recruitment platform combining video interviewing with online examination, supporting scalable management of candidates, employers, and interviewers.	
SideChat <i>TypeScript, React, Node.js, Tailwind CSS</i>	GitHub
Built a browser extension for floating side conversations with Claude and ChatGPT, using the existing session with no API key required.	
PotholeGrade-BD <i>Python, Computer Vision, OpenCV</i>	GitHub
Built a computer vision system detecting potholes via polygonal segmentation, estimating depth using photometric shadow analysis.	
My-Portfolio-Website <i>Next.js, Tailwind CSS, TypeScript, Framer Motion</i>	GitHub
Designed and deployed a personal portfolio site showcasing projects and research with a modern, animated UI.	

Technical Skills

- Languages:** C, C++, Python, JavaScript, TypeScript
- Frontend:** React, Next.js, Tailwind CSS, HTMX, Alpine.js
- Backend / DB:** Flask, MySQL, SQLite
- AI / ML:** Scikit-Learn, TensorFlow
- Tools:** VS Code, PyCharm, GitHub, Jira, Docker, Cursor

Certifications and Achievements

- 1st Runner-Up, SWE Lab, CSE Project Show, United International University
- 2nd Runner-Up, FYDP-1, Final Year Design Project, United International University
- Participant, 12-Hour Hackathon, Developed a Scribble.io-inspired multiplayer game featuring sign language-based gameplay; awarded the Judges' Choice Award.
- Grameenphone Academy certifications (2026): Communication and Presentation Skills

Research

Final Year Design Project: <i>Design and Development of an AI/ML-Driven Energy-Efficient Secured Routing Protocol for WSN Applications</i>
Combining wireless sensor network routing, reinforcement learning, and security to improve energy efficiency and data integrity in distributed sensor nodes.