

ADNAN ALAM

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Education

Hunter College

Bachelor of Computer Science - Daedalus Honors

Expected Graduation: May 2028

New York City

Qualifications

Languages: Python, C++, SQL, Typescript, Java

AI Tooling: Claude API, Claude Code, Claude Plugins

Automation: FastApi, Redis, Celery, MySQL, Pandas, Numpy

Developer Tools: SupaBase, Firebase, Drizzle, Git, WordPress, BetaFlight

Libraries/Frameworks: React JS, React Native, Tailwind, Microsoft Office

Courses: Discrete Structures, Computer Architecture, Data Structure & Algorithm, C++ Design

Relevant Experience

Software Engineer Intern

Bounty

June 2026 – Present

Manhattan, NY (Hybrid)

- Shipped the pipeline behind Bounty's **one-click** creator onboarding and crawls a creator's Instagram, classifies every outbound link and builds in seconds instead of manual entry
- Engineered an LLM pipeline that finds what fans are asking for in Instagram and YouTube comments (scraping → filtering → generation) and turns it into **500+** auto-published listings monthly with **zero manual review**

Undergraduate Teaching Assistant

Hunter College

August 2026 – Present

Manhattan, NY

- Support instruction for Software Analysis and Design III (C++), leading students through object-oriented design, data structures, and code review

Drone engineer

OPUS Nighthawkers

May 2025 – Sep 2025

Brooklyn, NY

- Enhanced Beta flight control performance by **30%** via PID tuning, diminishing manual debugging time and elevating win rates up to **50%**.
- Implemented real-time communication protocols that reduced response latency to **<7ms** for drone soccer tournaments

Freelance Web Developer

MUNA Social Service & Other Clients

June 2022 – Present

Remote

- Engineered responsive web platform for multi-million dollar nonprofit serving **40,000+ beneficiaries**, implementing WordPress architecture with mobile-first design, achieving **95% cross-device compatibility**
- Accelerated website responsiveness by 46%, cutting page load times from **3.2 to 1.5** seconds via CDN implementation.

Competitive Robotics Participant

FIRST Robotics

Jan 2023 – Apr 2025

Queens, NY

- Built autonomous robot control systems through WPILib in Java for state-level competitions, implementing real-time sensor and path-finding algorithms
- Optimized robot performance by **15%** through motion planning algorithms

Projects/Open Source

Cross-Border Marketplace (under development)

FastAPI | Redis | Celery | FireCrawl | Supabase

- Architected a distributed data pipeline using FastAPI, Redis, and Celery to **automate** the scraping, integration, and processing of Korean secondhand marketplace (Bunjang, Joonggonara) listings for international buyers

Open Source - OpenMAIC | [pull #191](#)

MinerU docs | TypeScript | Loop engineering

- Resolved a critical cloud-routing bug in OpenMAIC (causing 413 error) by engineering a MinerU Cloud v4 integration with an asynchronous **upload-poll-ZIP** parse pipeline, which was later adopted into the official release.

Awards and Leadership

2nd Place - NYC MIST Logic & Algorithm Competition | 2025 | NYC

Competitive Programming

- Secured runner-up position demonstrating proficiency in data structures, algorithmic optimization, and time-complexity analysis under competitive constraints

1st Place - Hack Knight | 2025 | Queens College, NYC

Flask | React | API

- Implemented Flask backend to handle video generation requests and real-time stock data processing for an AI-powered stock comparison platform.