




# ADNAN ALAM

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## Education

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### Hunter College

Bachelor of Computer Science

Expected Graduation: May 2028

New York City

## Qualifications

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**Languages:** Python, C++, Java, SQL, HTML5, CSS, JavaScript, C

**Developer Tools:** Neon, SupaBase, Firebase, Drizzle, Git, WordPress

**Libraries/Frameworks:** Pandas, Numpy, ReactJS, React Native, PostgreSQL, Tailwind, OpenCV

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

## Relevant Experience

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### Industry Scholars Program Participant

May 2025 – Sep 2025

OPUS Nighthawkers via ISP

Brooklyn, NY

- Optimized Beta flight control performance by **30%** through custom PID controller tuning and sensor management, reducing manual debugging time and improving win rates by up to **50%**
- Implemented real-time communication protocols that reduced response latency to **<7ms** for competitive drone soccer tournaments

### Freelance Web Developer

June 2022 – Present

MUNA Social Service & Other Clients

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**
- Optimized site performance by **46%**, reducing load times from 3.2s to 1.5s through code splitting and CDN integration

### Competitive Robotics Participant

Jan 2023 – Apr 2025

FIRST Robotics

Queens, NY

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

### Web Developer

Jan 2023 – Sep 2023

PathFinder

Remote

- Built responsive web applications for Morgan York Consulting and Everybody Wins Atlanta, serving **500+ users**

## Projects/Open Source

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### SportPhase (under development)

React Native | SupaBase | Tailwind | OpenCV | C++

- Engineered a sports performance app utilizing **real-time** computer vision to track ball speed, auto-generate shareable highlight clips, and host a **social feed** for athletes to showcase performance through measurable athletic data.

### Open Source - OpenMAIC | pull #191

MinerU docs | TypeScript

- 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

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### 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.