Abdullah Khan

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EDUCATION

SUNY Farmingdale State College   **Expected Graduation: December 2025**

Bachelor of Science in Computer Science, Minor in Applied Mathematics   *GPA: 3.80/4.00*
- Relevant Coursework: Data Structures & Algorithms, Linear Algebra, Computer Architecture, Operating Systems, Computer Vision, Database Systems, Probability & Statistics, Machine Learning, Android App Development, Systems Design
- Clubs & Activities: Google Developer Student Club, Coding 4 All, ACM Technology Club, Asian Student Association

WORK EXPERIENCE

Total Deployment Solutions   **June 2024 – Present**

Software & IT Intern   *New York City, NY*
- Incoming Software & IT Intern supporting engineering efforts for contracted clients like LinkedIn, JPM, and BlackRock.

FSC - Center for Academic Success & Tutoring   **September 2024 – Present**

Computer Science Teaching Assistant (CSC111, CSC211, CSC329)   *Farmingdale, NY*
- Tutored 200+ students in Java and DSA, resulting in a one-letter grade improvement for 72% of attendees.
- Designed 100+ coding exercises on recursion, linked lists, and design patterns used in review sessions and graded labs.
- Hosted 20+ workshops on sorting algorithms and time complexity, raising student exam scores by 12 points on average.

International Cricket Council   **May 2024 – August 2024**

IT Infrastructure & Automation Intern   *East Meadow, NY*
- Automated Cisco IOS device provisioning with Ansible, cutting setup time by ~70% per department.
- Deployed EC2 stream relays via AWS CLI and Terraform to support 1M+ concurrent viewers with 99.9% uptime.
- Performed BIOS configuration and firmware updates for workstations used by broadcast crews.
- Configured computers, printers, and routers to support broadcast, commentary, and camera teams across eight sites.

Engageathon   **January 2024 – May 2024**

Software Engineer Intern   *Remote*
- Built real-time event check-in scanner with React Native and QR APIs, improving event attendance accuracy by 45%.
- Refactored Django API endpoints with Axios batching, reducing app load time by 1.8x.
- Configured JWT-based permissions in Django, securing data for 1000+ user accounts.
- Streamlined CI/CD via GitHub Actions for React Native & Django, cutting release time from days to hours.

PROJECTS

LawDoc AI | **Demo** | **Github Code** | **Devpost** | (React, Next.js, OpenAI API, AWS S3, Pinecone)
- Engineered a free AI legal assistant using Next.js and GPT-4 API, achieving 93% accuracy in contract clause summaries.
- Managed a 4-person team to win RamHacks 2025 AI/ML Track (50+ teams) for innovation and real-world utility.
- Sped up document downloads/uploads from AWS S3 buckets by 128% by using concurrent Goroutines.
- Architected a Pinecone–OpenAI embedding pipeline for semantic legal search under 200 ms.

Stocks Insights Tracker | **Demo** | **Github Code** | (Python)
- Parsed 1000+ congressional trade PDFs using PyPDF2 and Requests to extract structured data.
- Implemented SMTP alert system with multi-threading, scaling to process 10x data volume.

TeamDocs - Google Docs Replica | **Github Code** | (Next.js, TypeScript, MongoDB, TailwindCSS, Clerk)
- Developed a collaborative editor with WebSockets & Liveblocks, supporting 50+ users at <100 ms latency.
- Integrated CRDT conflict resolution in TypeScript, eliminating edit collisions for 100+ concurrent cursors.
- Optimized MongoDB indexes to cut document load time by 60% under heavy write traffic.

LEADERSHIP & EXTRACURRICULARS

AI & Machine Learning Club   **May 2025 – Present**

Vice President   *Farmingdale, NY*
- Led AI Club as Vice President, tripling membership, organizing 10+ workshops and hackathons, and securing partnerships with industry experts to advance student AI skills.

CodePath   **May 2024 – August 2024**

Technical Interview Prep Apprentice (TIP102)   *Remote*
- Completed **CodePath's TIP102**, taught by Meta and Amazon engineers, mastering algorithms and system design.

AT&T Technology Academy Apprentice   **July 2023 – August 2023**

Technology Academy Apprentice   *Remote*
- Earned AT&T's **Technology Academy Certificate** in network troubleshooting, 5G, and cloud computing.

TECHNICAL SKILLS

Programming Languages: Python, Java, Go, JavaScript, C, C++, Kotlin, TypeScript, HTML, CSS, SQL
Frameworks & Libraries: React, Angular, Node, Next.js, Spring Boot, Django, Pandas, Flask, Tensorflow, Selenium, JUnit
Tools: Git, Jira, Jenkins, AWS, Google Cloud, Firebase, NoSQL, PostgreSQL, MongoDB, Docker, Kubernetes, Postman, Jupyter
Concepts: Backend Development, Frontend Development, Full Stack Development, Software Engineering, NLP, Networking, CI/CD, Microservices, Infrastructure Engineering, DevOps, Linux/Unix, Automation, Agile, REST APIs, Scrum