Mahad S. Khan

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EDUCATION

University of Maryland — College Park, MD
Bachelor of Information Science, Minor in Mathematics — Expected May 2026
Courses: Computer Architecture, Database Design, UX Design

WORK EXPERIENCE

The Wills Group — La Plata, MD
Software Engineering Intern (Fullstack + Infrastructure) — Jun. 2025 – Present
- Built full-stack **React.js** dashboard serving 20+ stakeholders for intern project tracking; implemented dynamic routing, role-based auth, and CI/CD workflows with GitHub Actions.
- Automated TLS certificate provisioning for 15+ POS endpoints, improving PCI-DSS compliance and reducing configuration errors by **80%**.
- Assisted in building ML pre-processing pipelines using Pandas, spaCy, and BeautifulSoup to vectorize **1TB** of enterprise data, boosting L1 engineer productivity by **40%**.
- Established ESLint and Jest testing protocols, achieving 85% test coverage; reducing post-deployment hotfixes by **50%**.

The Wills Group — La Plata, MD
Software Engineering Intern (Networks) — Jun. 2024 – Aug. 2024
- Streamlined Meraki MX67/MS120 deployment across 8+ retail sites; scripted bulk firewall rule configurations via Meraki Portal, reducing staging time by **30%**.
- Developed initialization scripts for 45+ BOHA IoT devices, shipping **50%** ahead of schedule across 35+ locations.
- Standardized network protocols with cross-functional teams, reducing site onboarding time by **25%** and streamlining troubleshooting processes.

The Wills Group — La Plata, MD
Software Engineering Intern (DevOps Automation Engineering) — Jun. 2023 – Aug. 2023
- Resolved 40+ hardware/software tickets across 250+ employee base using incident response workflows; reduced average downtime by **35%** while decreasing L1-L3 escalations.
- Automated PC imaging using Microsoft Deployment Toolkit and pre-configured Windows Images, cutting device setup time by **50%** across 3+ regional sites.

ReMax One — La Plata, MD
Data Science Intern (Database + Backend Development) — Jun. 2022 – Sept. 2022
- Designed and implemented scalable MySQL database to replace Excel-based workflows, normalizing 150+ client and 200+ property records; reduced query latency by **45%** via schema optimization.
- Refactored internal property tracking system using ER modeling and join optimization, reducing manual report generation time by **30%** and enabling multi-user access.
- Migrated and cleaned legacy data using Python scripts with SQLAlchemy and Pandas, improving data integrity by **95%**.

PROJECTS

PoliView — *React.js, Next.js, TypeScript | Supabase | Vercel | Congress.gov API, Axios, Framer* — May 2025
- Built real-time legislative tracking platform with automated bill parsing and sentiment analysis; architected caching layer reducing API calls by **75%** while maintaining sub-200ms response times.

Flame — *React.js, Next.js, TypeScript | Firebase | Vercel | OpenAI (DALL-E), Axios, Tailwind CSS* — Oct. 2024
- AI-powered thumbnail generator utilizing OpenAI GPT-4o; implemented request queuing and rate limiting to handle **35+ concurrent users** without API throttling.

QuranQuest — *HTML, CSS, JavaScript | Flask (Python)* — Dec. 2023
- Gamified Islamic education platform with interactive quizzes and progress tracking; deployed across **2 mosques** serving **80+ students** with personalized learning modules.

EnchantmentPLUS — *Java | Forge API, Spigot API | Blockbench, GIMP* — Aug. 2023
- Minecraft mod with custom enchantment engine and particle system optimization; reverse-engineered game mechanics to implement balanced progression system supporting **100+ concurrent players**.

SKILLS

Languages: JavaScript, TypeScript, Python, SQL, C/C++, R, Bash
Technologies: React.js, Next.js, Node.js, Express.js, Flask, Supabase, Vercel, Firebase, Linux, Cursor, SQLAlchemy
Interests: Rock-Climbing, Hiking, Photography, Writing, Crochet, Latte-Art, Philosophy, Tang-Dynasty Chinese History