Mahad S. Khan

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EDUCATION

University of Maryland — College Park, MD
Master of Information Systems (Plus One Program) — Expected May 2027
Courses: Advanced Data Science, Cloud Computing, Machine Learning

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

SKILLS

Languages: Python, JavaScript, TypeScript, Java, SQL, C/C++, Bash, R
Backend & Infrastructure: Node.js, Flask, Express.js, MySQL, SQLAlchemy, Linux, Firebase, Supabase, Vercel, React.js
Interests: Rock-Climbing, Hiking, Photography, Writing, Philosophy, Tang-Dynasty Chinese History

WORK EXPERIENCE

The Wills Group — La Plata, MD
Software Engineering Intern — Jun. 2025 – Present
- Built distributed ML pipeline processing **1TB+** enterprise data, boosting L1 engineer productivity by **40%** using Python/SQLAlchemy.
- Architected a full-stack dashboard, serving **20+** stakeholders with role-based auth, dynamic routing, and automated CI/CD (React.js/Node.js).
- Enhanced security infrastructure through TLS provisioning across **10+** POS systems, achieving **80%** reduction in config errors and PCI-DSS compliance.

The Wills Group — La Plata, MD
Software Engineering Intern — Jun. 2024 – Aug. 2024
- Streamlined Meraki MX67/MS120 deployment across **8+** retail sites, scripting configurations via Meraki Portal, reducing staging time by **40%**.
- Developed IoT device automation scripts for **45+** BOHA devices, shipping **50%** ahead of schedule across **35+** locations.
- Standardized network protocols with cross-functional teams, cutting site onboarding time by **25%** and streamlining troubleshooting.

The Wills Group — La Plata, MD
Software Engineering Intern — Jun. 2023 – Aug. 2023
- Automated system provisioning using Microsoft Deployment Toolkit and pre-configured Windows images, cutting device setup by **50%** across 3+ sites.
- Resolved **40+** hardware/software tickets across **250+** employee base using Jira, reducing downtime by **35%** while decreasing L2-L3 escalations.

ReMax One — La Plata, MD
Data Science Intern — Jun. 2022 – Sept. 2022
- Designed a scalable MySQL database replacing Excel workflows for **150+ clients and 200+ properties**; reduced query latency by **45%** via schema optimization.
- Built ETL pipelines, migrating legacy data using Python/SQLAlchemy/Pandas, improving data integrity by **95%**.

PROJECTS

PoliView — *React.js, Next.js, TypeScript | Supabase | Vercel | Congress.gov API, Axios, Framer* — May 2025
- Built a real-time legislative tracking system processing **500+** daily bill updates, enabling users to learn about vital U.S. legislation.

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**.