

Mahad S. Khan

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EDUCATION

University of Maryland

Bachelor of Information Science, Minor in Mathematics

Courses: Computer Architecture, Database Design, UX Design

College Park, MD

Expected May 2026

WORK EXPERIENCE

The Wills Group

La Plata, MD

Software Engineering Intern (Fullstack + Infrastructure)

Jun. 2025 – Present

- Architected and shipped a full-stack **React.js** dashboard, serving **20+** stakeholders to track intern projects; implementing dynamic routing, role-based auth, and CI/CD workflows with GitHub Actions.
- Performed TLS certificate provisioning for **15+** POS endpoints; improving PCI-DSS compliance and reducing configuration errors by **80%**.
- Built end-to-end ML pre-processing pipelines, to vectorize **1TB** of enterprise data for AI training, with the aim to boosting L1 engineer productivity by **40%**.
- Established ESLint 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

- Deployed **8+** Meraki MX67/MS120s to retail sites; creating bulk firewall rule configs via Meraki Portal, reducing staging time by **30%**.
- Hacked together 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 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 a **250+** employee base; using incident-response workflows, reducing average downtime by **35%** and reducing dependency on **L1-L3** engineers.
- Automated PC imaging using Microsoft Deployment Toolkit and pre-configured Windows Images; cut 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 a scalable MySQL database to replace Excel-based workflows, normalizing **150+** client and **200+** property records; reduced query latency by **45%** via schema optimization and indexing.
- Refactored internal property tracking system using ER modeling and join optimization; reduced manual report generation time by **30%** and enabled multi-user access.
- Wrote Python scripts to migrate and clean legacy data using SQLAlchemy and Pandas, improving data integrity by **95%**.

PROJECTS

PoliView — *React.js, Next.js, TypeScript | Supabase | Vercel | Congress.gov API, Axios, Framer*

May 2025

- Full-stack legislative platform that tracks bills and other congressional actions; enabling users to stay informed on vital U.S. legislation, deployed via Vercel.

Flame — *React.js, Next.js, TypeScript | Firebase | Vercel | OpenAI (DALL-E), Axios, Tailwind CSS*

Oct. 2024

- AI-powered thumbnail generator utilizing OpenAI GPT-4o; handling user-auth and bulk image generation at scale with **35+** peak users, deployed via Vercel.

QuranQuest — *HTML, CSS, JavaScript | Flask (Python)*

Dec. 2023

- Islamic education platform serving **2+** local mosques with interactive quizzes, progress tracking, and personalized learning modules for **80+** students

EnchantmentPLUS — *Java | Forge API, Spigot API | Blockbench, GIMP*

Aug. 2023

- Programmed a Minecraft mod, revamping the enchantment system using Java and the Forge API, deployed on a production server handling **100+** concurrent connections.

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