Raahil Khan

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EDUCATION

Rutgers University **New Brunswick, NJ**
Bachelor of Science in Computer Science, Minor in Mathematics Sep 2023 – May 2026
GPA: 3.4 | Dean's List

EXPERIENCE

IT Support Intern **Sep 2026 – Present**
Factory LLC Bethlehem, PA

- Created, updated, and deleted user accounts in Microsoft 365 and Google Workspace for Factory LLC and portfolio companies Roar and UpSnacks.
- Analyzed email security threats flagged in Barracuda, monitored spam filtering activity, and recommended remediation steps to the IT Manager.
- Configured and deployed Windows and macOS laptops for end users, including factory resets, clean OS installations, and full software setup.

Cybersecurity Extern **Sep 2026 – Present**
Extern – Hydroficient Remote

- Built and secured an MQTT-based IoT pipeline using Python, TLS encryption, and device certificates to simulate and protect real-time water monitoring systems.
- Conducted security testing, including replay attack simulations and TLS performance benchmarking, identifying vulnerabilities and tuning defenses.
- Developed a real-time security dashboard using Streamlit to monitor pipeline health, detect threats, and track system status.

PROJECTS

Company Laptop Asset Inventory | Microsoft Excel, Command-Line Tools, BIOS **Sep 2026 – Oct 2026**

- Cataloged all company laptops in a spreadsheet, recording asset ID, serial number, operating system, CPU, and RAM, gathering specs through command-line tools and BIOS when devices couldn't be accessed.
- Evaluated each device's hardware and condition to determine whether it was suitable for employee use or should be retired.
- Prepared approved laptops for deployment by upgrading RAM where needed and performing factory resets.

Database Management & Query Platform | Python, PostgreSQL **Sep 2025 – Dec 2025**

- Designed and normalized a PostgreSQL database for a 300,000+ row HMDA mortgage dataset, implementing data cleaning, transformation, and relational query logic to ensure data accuracy and consistency.
- Developed a Python-based natural language interface that converted user questions into executable SQL queries.
- Built a GUI enabling non-technical users to perform joins, filtering, grouping, and aggregate analysis without writing SQL, making the system accessible to end users.

RuDonuts Mobile App | Java, Android Studio, Git **Nov 2025 – Dec 2025**

- Developed an Android application supporting donut ordering, cart management, and order tracking functionality.
- Implemented mobile user interfaces, event-driven workflows, and backend logic to streamline menu selection and order processing.
- Tested and debugged application components to identify and resolve issues, improving usability, reliability, and overall user experience.

TECHNICAL SKILLS

IT Support: User Account Management, Troubleshooting, Device Provisioning, Asset Inventory, Customer Service
Tools/Platforms: Microsoft 365, Google Workspace, Barracuda Spam Filter, BIOS Interface, Command Line Tools, Git
Operating Systems: Windows, macOS, Linux
Security: Email Security, Threat Analysis, TLS, MQTT, Security Testing
Languages/Libraries: Python, SQL (PostgreSQL), Java, C, Pandas, Streamlit