

# Hadi Malik

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## EDUCATION

### Georgia Institute of Technology

Atlanta, GA

B.S. Computer Science, Specialization in Cybersecurity and Intelligence | GPA: 4.0

Expected: Dec. 2026

- Relevant Coursework: Data Structures, Object-Oriented Programming, System Design, Linear Algebra, Discrete Math, Probability & Statistics

## EXPERIENCE

### Software Engineer Intern

May 2025 – Jul. 2025

In Good Company Works

Atlanta, GA

- Developed a full-stack AI Advisor chatbot using React, Node.js, and Firebase, with **50+ chat sessions from 15 test users** to validate usability.
- Delivered tailored AI responses by implementing business-specific Retrieval-Augmented Generation (RAG), enhancing contextual accuracy.
- **Reduced backend latency by 50+%** by migrating infrastructure to Google Cloud; secured with RBAC, token validation, CORS, and session controls.
- Launched an iOS companion app using SwiftUI and MVVM, achieving seamless integration with Firebase to extend functionality.
- Improved experience and brand consistency by collaborating with designers to rebrand the tool and redesign the website and app using Figma.

### Software Developer Intern

May 2024 – Aug. 2024

Verifacto Inc.

Sandy Springs, GA

- **Increased ML model accuracy from 76% to over 99%** by collecting and annotating thousands of insurance documents for reinforcement learning, enabling the ML model to automatically extract key fields from insurance notices.
- **Improved database query efficiency by 40% and reduced token usage by 30%** by converting a MySQL database into a vectorized MongoDB database with a more compact schema that maintained full data representation while lowering input size for LLM-driven queries.
- **Boosted customer satisfaction by 25%** by developing and showcasing a LangChain-powered chatbot that allowed users to query their own inventory databases for actionable insights – functionality that was previously unavailable.
- Led a platform translation initiative that **increased engagement from Spanish-speaking users by 15%** by localizing all customer-facing content into Spanish, ensuring broader accessibility without sacrificing performance.

### Data Science Research Assistant

Jan. 2024 – Present

Georgia Tech VIP - ACT Driving Simulator

Atlanta, GA

- Visualized EEG data with MATLAB and EEGLAB to understand brain activity during simulated cyber attacks in a driving environment.
- Developed scripts to extract and standardize alpha, beta, and gamma frequency bands to monitor stress-related brain responses in real time.
- Applied CUSUM-based novelty detection to cleaned and preprocessed EEG signals to detect shifts in cognitive state.

### iOS Developer

Sept. 2024 – Dec. 2024

GT iOS Club – [SmartyPants](#)

Atlanta, GA

- Developed an iOS app that groups students by academic preferences and availability. **Won "Best Design" at club showcase.**
- Built the Profile page in SwiftUI with editable user fields, dynamic course management, and photo selection using UIImagePickerController.
- Integrated Firebase Firestore database for real-time syncing of user preferences like major, languages, meeting format, and group size.

## PROJECTS

### VulnScan - A Cybersecurity tool that scans for network vulnerabilities

June 2025 - Present

- Built multi-threaded Python vulnerability scanner for open port detection, banner grabbing, and CVE mapping via NVD CPE API.
- Implemented CPE-based CVE matching with CVSS filtering, CLI support, and interactive subnet host discovery for vulnerability assessment.
- Generated HTML/JSON reports and tested scanner accuracy against Dockerized vulnerable services (vsFTPD, OpenSSH, MailHog, Apache).

## LEADERSHIP AND COMMUNITY ENGAGEMENT

### Sunday School Manager, Masjid Omar Bin Abdul Aziz

Aug. 2022 – Present

- Improved Sunday School operations by managing curriculum and organizing events that increased student engagement and program structure.
- Taught Islamic studies using interactive methods like games, group discussions, projects, and hands-on activities.

## SKILLS

- **Languages:** Java, Python, Swift, C, SQL, Assembly (x86), PHP, JavaScript, TypeScript R
- **Frameworks:** React, Django, Flask, Vite, Firebase, MongoDB, Langchain, MySQL, WordPress, Webflow, Yii, Overleaf
- **Developer Tools:** Matlab, MySQL, Git, AWS, Google Cloud, Salesforce, Hubspot
- **Operating Systems:** Linux (Ubuntu), macOS, Microsoft Windows

## ADDITIONAL INTERESTS

- **Interests:** Fantasy Football, Basketball, Soccer, Cars, Astronomy, Food
- **Clubs:** iOS Club, Muslim Student Association (Activities Committee Leader), Pakistani Student Association