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 AI model accuracy from 76% to over 99%** (based on validation set performance) by collecting and annotating thousands of insurance documents for reinforcement learning, enabling the LiLT 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 structure with a more compact schema that maintained full data representation while lowering input size for LLM-driven queries.
- **Boosted customer satisfaction by 25%** (measured through post-demo survey feedback) 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%** (based on web traffic analytics) 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.
- Implemented custom SwiftUI components for form input, group listings, and responsive layouts tied to onboarding and matching logic.

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