Taha Biyikli

412-656-3618 | tbiyikli@andrew.cmu.edu | linkedin.com/in/tahabiyikli | github.com/tahabykl

Education

- **Carnegie Mellon University** Pittsburgh, PA
  Bachelor of Science in Computer Science, Minor in Mathematics. GPA:4.0 *May 2027*
  - **Relevant Coursework:** Hacking and Offensive Security (MSc), Principles of Imperative Computation, Matrix Theory (Honors), Mathematical Foundations of Computer Science, Putnam Seminar

Experience

- **Cybersecurity Company (NDA)** United Kingdom
  Team Lead *Mar 2023 - Sep 2024*
  - Led a team of three cybersecurity analysts.
  - Conducted comprehensive cybersecurity assessments, including web, mobile application, and API security testing. Built over 10 internal applications.
- **Triggerz Inc.** Delaware
  Founding Engineer *Mar 2022 - Mar 2023*
  - Designed, implemented and scaled RESTful APIs with Flask, integrated GraphQL with Postgres, used AWS to deploy available services leveraging EC2, S3, RDS, Lambda. Set up Keycloak for auth.
  - Built CI/CD pipelines on GitLab, automated deployments using Docker and Kubernetes.
  - Conducted QA and security testing. Covered OWASP Top 10 vulnerabilities through blackbox/whitebox testing with code reviews. Identified and mitigated security issues through input sanitization. Fixed IDOR and SSRF vulnerabilities.
  - Installed static/dynamic code analysis tools (Acunetix, Nessus, and custom) to ensure early vulnerability detection. Installed SIEM tools. Used ELK for log processing and Sentry for error logging to handle increased user demand
- **HackerOne, Bugcrowd, Miscellaneous Vulnerability Disclosure Programs**
  Independent Security Researcher *Jul 2020 - Present*
  - Acknowledged and paid by over 30 organizations in different industries including Apple, U.S. Department of Defense, BBC, Sony, AT&T (tahabiyikli.com/acknowledgements) for reporting security vulnerabilities to security programs. Found BOLA, XSS, SQLi, business logic, and race condition vulnerabilities among others. Resolved security vulnerabilities for companies.

Awards & Projects

- **Winner, HackHarvard 2024 - Patient Safety Track** Led a team of four to develop *CognitiveKeyboard*, an Android app that predicts cognitive decline and mental health risks by analyzing keystroke data using classification techniques such as KNN. Implemented privacy-preserving typing metrics collection and integrated a MongoDB-backed data visualization platform for researchers. Built using Java, Python, MongoDB, and Linode, focusing on system administration, testing, security, CRUD API and Android app development.
- **Winner, National Research Competition** Developed *EduSecure*, a secure, cost-effective password manager browser extension that uses on-the-fly password generation with hashing, eliminating the need to store passwords while maintaining security. Earned **1st place** in Turkey's prestigious TUBITAK national high school research competition.
- **Developer, Brunhilda** Automated tool for web application reconnaissance and security audits.
- **Developer, IDOR Playground** Designed and developed an open-source web application lab environment with over 20 vulnerable labs focused on Insecure Direct Object Reference vulnerabilities. Integrated a hint-based feedback system that guides testers by dynamically assessing their request manipulations.
- **Team Member, Plaid Parliament of Pwning (PPP) CTF Team** Participating in CTFs for 5 years, focusing on application security, reverse engineering, and coding. Qualified for finals in top international CTFs, including Google CTF and CSAW.

Technical Skills

- **Languages** C, Python, Bash, x86 Assembly, Javascript, React, GraphQL, PostgreSQL
- **Technologies** UNIX, GDB, IDA Pro, Git, Flask, Wireshark, Docker, Kubernetes, Elasticsearch, Kibana, Logstash