Taha Biyikli

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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) — Remote, UK
Team Lead — *Mar 2023 - Sep 2024*

- **Lead**: Supervised and guided a team of three cybersecurity analysts.
- **Application Security**: Conducted comprehensive cybersecurity assessments, including web, mobile application, and API security testing. Engineered and deployed over 10 internal tools on AWS.

Triggerz Inc. — Remote, Delaware
Founding Engineer — *Mar 2022 - Mar 2023*

- **Backend Development**: Designed and implemented scalable RESTful APIs with Flask, integrated GraphQL with Postgres, used AWS to deploy available services leveraging EC2, S3, RDS, Lambda. Set up Keycloak.
- **DevSecOps**: Built CI/CD pipelines on GitLab, automated deployments using Docker and Kubernetes.
- **QA/Security Testing**: 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 7 IDOR vulnerabilities.
- **Security Engineering**: 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 tracking.

HackerOne, Bugcrowd, and independent vulnerability disclosure programs
Freelance Security Researcher — *Jul 2020 - Present*

- **Acknowledgements**: Acknowledged and paid by more than 30 organizations in different industries including Apple, BBC, Sony, US Department of Defense, AT&T (tahabiyikli.com/acknowledgements) for reporting security vulnerabilities to security programs. Found IDOR, XSS, SQLi, buffer overflows, and race condition vulnerabilities among others. Helped companies resolve the issues.

PROJECTS

- **Brunhilda (Bash)**: Automated tool for web application reconnaissance and security audits.
- **EduSecure (Javascript)**: 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.

HONORS

- **Capture the Flags (CTF) with Parliament of Pwning (PPP)**: Participating in CTF competitions for 4 years. Joined Plaid PPP (CMU's hacking club). Focusing on challenges related to application security, reverse engineering, and coding. Qualified to finals of Google and CSAW CTF as a team. Ranked top 3 in some of the largest CTFs in Turkey during high school.
- **National High School Research Competition Winner**: Developed a browser extension designed to enhance online privacy and security for Learning Management System users, with a particular focus on password security and raising security awareness. The project **earned 1st place in the "cybersecurity" subcategory and 3rd place in the overall "software" category** in the most prestigious national research competition in Turkey, TUBITAK-2204.

TECHNICAL SKILLS

- **Languages**: C, Python, Bash, x86 Assembly, Javascript, GraphQL, SQL
- **Technologies**: UNIX, Burp Suite, GDB, Git, Flask, Wireshark, Docker/Kubernetes, Elasticsearch, Kibana, Logstash