ARI Q BAILEY

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EDUCATION

University of Maryland	College Park, MD
B.S. Computer Science, Cybersecurity Minor, GPA: 3.93	Expected May 2023
Universitat Pompeu Fabra	Barcelona, Spain

SKILLS

Languages: Java, Python, C#, HTML, CSS, JavaScript, Angular, Linux, Unix
IDEs: Eclipse, VSCode, Visual Studio, Jupyter Notebook

TECHNICAL EXPERIENCE

CoStar Group (Financial Data Services Team)   Washington, D.C.
Technology Intern   June 2022 - Aug 2022
- Extended C# engine that translates simple JSON to complex Elasticsearch DSL queries
- Created a generic method that uses a lambda expression as a parameter to enable searches against multiple fields
- Introduced support for boost values, nested queries, and complex use of Boolean operators
- Drastically increased company-wide financial data access speed

Iribe Kiosk – Human Computer Interaction   College Park, MD
Homepage Designer   Aug 2021 – Dec 2021
- Designed and prototyped kiosk for use in campus Computer Science building
- Iterated and researched to determine and refine kiosk functionality and interface through field research surveys and testing studies
- Developed homepage with interactive map, navigation, and event information using HTML, Bootstrap, and JavaScript

CoStar Group (Financial Data Services Team)   Washington, D.C.
Technology Intern   June 2021 - Aug 2021
- Wrote C# API endpoints for contract upload and download secured by JSON Web Token
- Built Angular/C# utility with EchoSign API displaying info for 10,000+ users and implemented singleton service to maintain OAuth access token hydration
- Created React components for user stories

Attacker Honeypot Research Project   College Park, MD
Team Member   Jan 2021 – May 2021
- Conceived and constructed experiment to study changes in hacker behavior due to time of day
- Scripted a self-regenerating "honeypot" environment to attract attackers with a man-in-the-middle server, recording their keystrokes to study what they do once inside
- Extracted and analyzed data for a research report using Unix command line tools

Red-team Blue-team Gradebook Project   College Park, MD
Team Member   Jan 2021 – May 2021
- Coded Java gradebook application using secure object-oriented design principles
- Fortified program against data manipulation by hashing and encrypting grade data
- Composed script to flip bits at predictable offsets in assigned teams' project to successfully invalidate grade data without crashing their application

LEADERSHIP EXPERIENCE

Delta Upsilon, *Vice President of Recruitment*   Dec 2020 – Nov 2021
- Facilitated recruitment for two semesters with 150% rate of replacement, built a dependable committee, ran outreach events and communication workshops