Edward L. Du

☎ (410) 660-9596 | ✉ edwardu1234@gmail.com | in linkedin.com/in/edward-du | ⌥ github.com/edwarddu2001

Education

University of Maryland, College Park   Expected Dec 2022
B.S. Computer Science & B.S. Psychology   3.8 GPA
- **Relevant Coursework:** Building Secure Web Apps with Python & Flask, Computer Systems Architecture, Computer & Network Security, Cryptography, Intro to Computer Systems, Org. of Prog. Languages, Algorithms, Discrete Structures, Object-Oriented Prog. II, Linear Algebra, Statistics, Future of Science Communication, Entrepreneurial Opp. Analysis and Decision-Making in Tech Ventures

Work Experience

Cybersecurity Researcher – *National Institute of Standards and Technology*   Apr 2021 – Present
- Developing a Cybersecurity ASP.NET API for commercial use that tracks data flow through interconnected systems in a network, designed with Docker and PostgreSQL compatibility and modelled after blockchain
- Administering a design and development team with daily standup meetings through Jira, with recent successful migration of source code from MudBlazor and clean architecture to ASP.NET 6 and vertical slice architecture
- Researching the current industry state of dataflow security and its vulnerabilities, resulting in a research paper published this year

Web Development Intern – *SRASYS, Inc.*   Oct 2018 – Apr 2019
- Engineered with the development team a learning management system website using HTML/CSS and Bootstrap for a school district
- Modeled and presented the frontend user interface using Figma, leading to client approval and paving the way for further UI programming
- Participated in weekly status updates in accordance with Scrum/Agile software development

Projects

BillSplit App – *Self Project*   Sep 2021 – Present
A .NET MudBlazor server-side CRUD application with the ability to add and remove receipt items and divide the cost proportionally among a group of people. Dependency injection and clean architecture principles applied. Written using HTML for front-end and C# for back-end, with EFCore to provide database support. Docker implementation also included. Originally designed for use between roommates and pending further expansion.

Business Catalog Searcher Website – *Self Project*   Summer 2020
A dynamic website where users can access business catalogs without the hassle of navigating different websites and interfaces. Written using HTML/CSS and JavaScript for dynamic web navigation. Account creation is handled using Node.JS and username and password stored in a secure MongoDB database. Google Maps API with custom markers is implemented for map usage.

Awards & Certifications

Oracle Certified Associate, Java SE 8
1st Place in DC MIST Mobile Application Competition
2nd Place in Computer Problem Solving @ FBLA Regional Conference
Science, Technology, and Society Scholars Citation @ University of Maryland
Academic Honor Roll (2019, 2020, 2021, 2022) @ University of Maryland

Skills

Programming: Java, Python, C/C++, .NET 6, ASP.NET, C#, HTML/CSS, JavaScript, Docker, PostgreSQL, Blazor, Assembly, Ruby, OCaml, Rust, R, Git, GitHub, Jira, Bitbucket, Unity, Figma
Technical Skills: Software, Web, App, & API Dev, Full Stack Dev, Scrum/Agile Dev Process, Clean vs. Vertical Slice Architecture, Docker Support, AWS, IT Server Management, Fuzzing & Network Security
Languages: English, Chinese