Edward L. Du

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Education

University of Maryland, College Park   Expected Dec 2022
B.S. Computer Science & B.S. Psychology   3.754 GPA

- **Relevant Coursework:** 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 app for commercial use that tracks data flow through interconnected systems in a network, designed with a graphical view and modelled after blockchain
- Guiding a research and development team with daily standup meetings, with a research paper and product scheduled for release within the year

Web Development Intern – *SRASYS, Inc*.   Oct 2018 – Apr 2019

- Worked with the development team to create a website using HTML/CSS and Bootstrap for a client
- Participated in weekly status updates in accordance with Scrum/Agile software development

IT Intern – *ERT, Inc.*   Jun 2018 – Aug 2018

- Created a company website using Wix, updating the original website
- Managed the system network, performed troubleshooting and maintenance of servers

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 Mobile MIST Mobile Application Competition
2nd Place in Computer Problem Solving @ FBLA Regional Conference
Certificate of Merit @ Aberdeen Proving Grounds
Maryland Seal of Biliteracy (Chinese)

Skills

Programming: Java, Python, C/C++, .NET 5, C#, HTML/CSS, Blazor, JavaScript, Assembly, Ruby, OCaml, Rust, R
Languages: English, Chinese
Technical Skills: Software, Web, & App Development, Fuzzing & Network Security, IT Server Management
Experienced in Scrum/Agile development process