# **Benjamin Salzberg**

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3503 Overbrook Road, Pikesville MD, 21208

#### **Education**

University of Maryland College Park, College Park Maryland

May 2021

Selected for Scholars Program: Science and Global Change

Bachelor of Science in Computer Science

Minor in Mathematics

Specialization in Cybersecurity

GPA: 3.08

### **Skills**

Coding and Scripting Skills:

Java, JavaScript, C, Python, X86-64 Assembly, C++, HTML5, CSS, Racket, Ruby, C#, Rust, OCAML, R, AVR Assembly, SQL, LaTeX.

#### Tools:

GNU/Linux, Windows, Google Firebase, Git, Wireshark, NodeJS, Microsoft Access, Microsoft Excel, MongoDB, Redcap, GitHub, VirtualBox, DNS, TCP/IP, UDP, WebRTC.

## **Experience**

Ouluxx Inc.

Software Developer

May 2020-Present

- Conceptualized and deployed a chat client designed around WebRTC and Google Firebase allowing users and clients to connect and communicate with each other.
- Within 4 months built a server and database for running an online marketplace, allowing disparate stores to easily connect with users.
- Implemented secure online payment and account management options to allow a storefront to function for both producers and distributors.

### Research Program at Johns Hopkins

IT Manager

Summers 2018, 2019

- Removed the need for manual review of patient surveys by creating a tool to automatically parse the data.
- Built a tool removing the need to search for specific values for determining patient's eligibility for studies.
- Increased the capability of nurses and physicians' assistants to record data regarding patient treatment using MS Access by simplifying and streamlining input form.
- Researched the effectiveness of medications working with an outpatient clinic.

### Harbor Labs Baltimore, Maryland

Assistant Developer

March – April 2017

- Developed a peer-to-peer system applying the WebRTC API for secure transmission between different clients.
- Expanded upon a cryptography peer-to-peer client using the Stanford JavaScript library utilizing AES and public private key encryption methods.



## **Projects and Coding Experience**

- Competed in Nahamcon 2021 capture the flag competition, placing 492/6491 players.
- Competed in Lockheed Martin's 2021 capture the flag competition.
- Established a website for the GRNDaD registry, a multi-site project that performs research on sickle cell disease, using Google Firebase.
- Competed in the JHacks 2019, and JHacks 2020 hackathons, created a tool in JavaScript that assisted those with reading disabilities to read text more easily, and building a web-assembly tool to assist users in coding challenges.
- Developed a tool to assist special needs students with learning the alphabet in Python using TKinter.
- Produced DNS resolver in Python capable of performing basic name resolution.
- Devised a chat server that retrieved and sent messages in Python using sockets.
- Assembled a Deterministic Finite Automata, and a Non-Deterministic Finite Automata parser and interpreter in OCAML to parse regex grammars.
- Deployed a Twitter Tweet Analyzer using Hadoop and Java.

# **Relevant College Courses**

Machine Learning	Abstract Algebra
Introduction to Compilers	Applied Harmonic Analysis
Applications of Linear Algebra	Bioinformatics Algorithms

