Sam Royall

Chicago, IL

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Seeking a role as an entry-level Backend or Full-stack Software Engineer

Education

Coding Dojo
Virtual

Full-time Full-Stack Software Engineering Bootcamp
January 2021 - May 2021

- **Awards**: Graduated with highest honors (Triple Black Belt)
- **Relevant Courses**: Web Fundamentals (JQuery, Bootstrap, HTML/CSS); Python (Django, Flask, SQLite, MVC Data Modeling); MERN (MongoDB, Express, React, Node, Socket.io, REST APIs, Asynchronous Code); C# (ASP.NET, MVC Data Modeling, Object-Oriented Design); Data Structures (Strings, Arrays, Linked Lists, Trees)

University of Chicago
Chicago, IL

BS in Computer Science, BA in Philosophy, GPA: 3.44/4.0
October 2015 - June 2019

- **Awards**: *Dean's List 15/16, 16/17, 17/18, 18/19*
- **Relevant Courses**: Intro to CS (Haskell/C); Computer Systems (C); Networking (C); Database Systems (Java); Security (Python); Cryptography (Python); Cryptocurrencies (Python); Computational Linguistics (Python); Functional Programming (Elm); Discrete Math; Algorithms

Skills

Languages	C++, C#, Python, JavaScript, Typescript
Frameworks	React, Django, Flask, ASP.NET
Libraries	Express, Socket.io, Axios, Gatsby, JQuery, Bootstrap
Other	Git, Amazon Web Services, Linux, MongoDB, Postgres, MySQL, SQLite, HTML, CSS

Projects

info-rm

Python, Django, JQuery, SQLite, AWS
Winter 2020

- *info-rm* aggregates gameplay statistics regarding professional soccer players. The app features a trie-based search algorithm and a SQL query user interface.

Klotski Solver

React, Node, Typescript, Github Pages
Summer 2020

- *Klotski Solver* is an elegant React puzzle solver, which uses an implementation of Dijkstra's Algorithm to find and display optimal solutions to user-input Klotski puzzles.

u ain't got no type

Python, Django, JQuery, SQLite, chartJS, AWS
Winter 2021

- *u ain't got no type* is a simple and elegant typing test that displays a user's real-time WPM and generates beautiful visualizations at test completion using *chartJS*.

CoCODE

React, Node, Express, Socket.io, prismJS, AWS
Winter 2021

- *CoCODE* is a collaborative code editor, allowing users to work on a shared document with real-time updates and *prismJS* syntax highlighting through the power of *socket.io*.

Experience

Stroz Friedberg, an AON Company
Chicago, IL

DFIR Consultant, Cyber Associate
August 2019 - December 2020

- Co-developed a Python command line tool used to forensically preserve GitHub repositories using the GitHub API
- Developed a Python command line tool used to facilitate identification of PII from source files using a SQLite database
- Played an important role within the Digital Forensics and Incident Response (DFIR) business unit, taking on various client engagements ranging from large-scale ransomware attacks to sensitive information exposure incidents and business email compromises
- Presented research regarding web scraping and other privacy-related vulnerabilities to prospective clients
- Earned promotion to consultant, taking on mentorship opportunities and increased responsibility in client engagements

Stroz Friedberg, an AON Company
New York, NY

Intern
June 2018 - August 2018

- Developed a Python command line tool used to analyze local Git repositories for evidence of data obfuscation
- Provided in-depth research and analysis during a large-scale user data exposure investigation for a Fortune 50 company