

# Sam Soucie

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## EXPERIENCE

Technical Rotational Analyst September 2021 - Present  
Leadership Development Program

### ION Group

Chicago, Illinois

Second Rotation: **Software Development** April 2022 - Present

- ❖ Developed ION Markets' flagship cleared derivatives back-office application utilizing **Java**, **SQL**, **C#**, **Robot Framework**, **Git**, and **Jenkins** to deliver timely and reliable **full-stack** and **mission-critical** solutions in an **Agile** environment.
- ❖ Collaborated with product managers and business analysts to refine requirements and design features that are intuitive for clients to use.
- ❖ Supported clients' production environments and implementation projects by identifying root causes of issues and developing solutions.

First Rotation: **Product Management** September 2021 - April 2022

- ❖ Assisted the development of new features by writing clear and concise **Jira** tickets, **Specifications by Example**, and **Business Requirement Documents**.
- ❖ Managed a team of product managers, quality assurance engineers, and systems specialists to implement a new test environment deployed on a **Linux** backend hosted on **AWS**.
- ❖ Performed precise technical tasks during **client demonstrations** in order to exhibit new complex functionality.

Informatics & Information Services Intern May 2021 - August 2021  
Enterprise Business Applications Team

### Indiana University Health

Indianapolis, Indiana | Remote

- ❖ Collaborated closely with Senior Solutions Architects to expand IU Health's Low Code/No Code application portfolio with **Power Apps** and **Power Automate**.
- ❖ Designed and developed easy-to-use applications to streamline and automate necessary business and systems processes.
- ❖ Expanded application-supporting infrastructure using **serverless computing** within **Microsoft Azure**.

Research Assistant May 2020 - August 2020  
Department of Computer Science

### Brown University

Providence, Rhode Island | Remote

- ❖ Researched correlation between student misunderstandings and failed tests in order to help instructors teach students more effectively.
- ❖ Designed algorithms and codebase in **Racket** to generate test suites automatically calibrated to find said misunderstandings.
- ❖ Analyzed real student data gained from the application to improve algorithm accuracy.

## PUBLICATIONS

Nelson, Tim, Elijah Rivera, Sam Soucie, Thomas Del Vecchio, John Wrenn, and Shriram Krishnamurthi. "Automated, Targeted Testing of Property-Based Testing Predicates." *The Art, Science, and Engineering of Programming* 6, no. 2 (2021).  
doi:<https://doi.org/10.22152/programming-journal.org/2022/6/10>.

## EDUCATION

### Indiana University

May 2021

Bloomington, Indiana

B.S. in **Computer Science** with *Highest Distinction*

Hutton Honors Notation | Computer Science Honors

**Specialization:** Programming Languages

**Minors:** Mathematics, Philosophy of

Mind and Cognition

**GPA:** 3.92/4.00 ● **Founders Scholar**

## SKILLS & TECHNOLOGIES

- ❖ Java, C, Lisp, SQL, AWS, Linux, Git, Agile Methodologies (proficient)
- ❖ Python, C#, JavaScript, Azure, Power BI, Web Development (familiar)