



# Santiago Rodriguez

✉ [sjrodriguez.iii@gmail.com](mailto:sjrodriguez.iii@gmail.com) ☎ 347-600-2359 📍 Bronx, NY 10453 in [linkedin.com/in/sjrodriguez-iii](https://www.linkedin.com/in/sjrodriguez-iii)  
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## 🎓 EDUCATION

### Computer Science, *University of Notre Dame*

May 2024 | Notre Dame, USA  
Minor: Innovation & Entrepreneurship

## 🧠 TECHNICAL SKILLS

C/C++

Python

Frontend Dev

JavaScript

ARM

OCaml

Scheme

## 📁 PROJECTS

### B-Minor Compiler, *Compilers and Language Design* [↗](#)

Sep 2022 – Dec 2022

- Constructed a working compiler that transforms C into x86 assembly.
- The project was broken down into five steps, requiring the construction of a scanner, parser, type checker, source translator, and code generator.
- Covered a broad array of topics in computer science, ranging from the abstract theory of automata to the very practical details of assembly languages

### Dark Web Market Research, *Researcher*

May 2022 – Sep 2022

- Joined a team of students and professionals interested in the data, data transfers and IT platforms related to illegal digital commerce on the Dark Web
- Researched for markets, and once a market was found, prepped a web-scraping bot to pull all the listings on the site.
- Maintained anonymity by practicing safe cyber measures, relaying on tor network, and working under a VPN.
- Worked in Linux, Python/Selenium. For more info: <https://yld.me/aPTj>

### Preternship - Data Structures Project, *Software Engineer*

Jan 2022 – May 2022

- Developed, implemented, and tested the Gale-Shapley Algorithm to create matching making application for professors to use.
- Identified critical tasks, determined project dependencies and design considerations.
- Delivered weekly code reviews and professional memorandums detailing project progress, assessed risks and alternatives, developed prototypes, and determined new project objectives.
- Made in python. Libraries used Pandas, ImapLib, Pandas, email, NumPy.

## 📁 PROFESSIONAL EXPERIENCE

### Brand Sales Engineer, *IBM*

May 2022 – Current  
San Francisco, USA

- Assisted IBM Northwest's Automation portfolio in their development, management and execution on strategies and tactics for closing business.
- Performed in-depth assessments of customer processes to uncover and understand the customer's business issues, in which I generated 10 leads via cold emailing/calling.
- Worked intimately with IBM's Cloud and AI solutions to prepare client use-case demonstrations and decks.
- Participated in a case study in which we pitched an IBM's Infosphere to multi-channel-based retail stores

## 🏠 ORGANISATIONS

### Management Leadership for Tomorrow

Jan 2021 – Current

- A career prep program for underrepresented, high achieving students that emphasizes leadership and professional growth.

### Wabruda, *Vice President*

Sep 2020 – Current  
Notre Dame, USA

- All Male-black club on Campus whose mission is focused on empowering members, cultivating community, and spirituality.
- Visited local schools and volunteered at shelters to meet with community members
- Promoted inclusivity throughout campus by hosting intellectual discourse, video game tournaments, and social events.

## 💎 INTERESTS

NSBE | Dunne Hall | Mustangs | Anime | Gardening | Fishing | DJ-ing | E-Barb | Web3 | XR | PopOs