# Richard Diaz

Full-stack Software Engineer ▪ Winston-Salem, NC 27106 ▪ (201) 988-9582 ▪ [richard.sd0007@gmail.com](mailto:richard.sd0007@gmail.com)

## SKILLS

C/C++, Typescript, Python, React, Redux, Express, HTML, CSS, SQL, Flask, Node, PostgreSQL, Unix-based operating systems

## PROJECTS

**DulyNoted** (Javascript, React, Python, Flask)                                                           live | github

A full-stack clone of the popular note taking app *Evernote* which allowed users to create notes and organize them
- Developed an autosave feature on notes to give the user a cleaner and less worrisome experience
- Programmed 17 different front-end components modularly which allowed for easier reading of the code and ability to be used in multiple situations

**RiftPay** (Javascript, React, Python Flask)                                                              live | github

A clone of *Splitwise* which allowed users to sign up and split transactions with their friends
- Led project team of 4 individuals in creating a complex backend database to store and retrieve data associated with many different types of transactions which may involve more than 20 users
- Refined application by debugging troublesome code and catching errors quickly

**AirBorNot2B** (Javascript, React, Express)                                                               live | github

A clone of *AirBnb*, the home hosting site which allowed users to create listings and leave reviews
- Utilized Express and Redux to comprehensively control the data flow of the application
- Implemented an efficient backend application to smoothly retrieve data stored in the database

## EDUCATION

Wake Forest University                                                                           Winston-Salem, NC

***Bachelor of Science in Mathematics***                                                                    May 2022

**Relevant Coursework**: Discrete Mathematics, Multivariable Analysis, Linear Algebra I and II

App Academy                                                                                            Fall 2022
- *Selective software engineering bootcamp where Full-Stack web development was learned*

## EXPERIENCE

Wake Forest University                                                                           Winston-Salem, NC

***Teaching Assistant***                                                                   January 2022 – May 2022
- Conducted 2 weekly study sessions for students to improve learning experience
- Assisted professor in grading student homework and quiz assignments

***Bridge Student Analyst Level 1***                                                        August 2021 – May 2022
- Aided dozens of students and professors daily in hardware and software issues across various operating systems

***Mathematics Tutor***                                                                     August 2019 – May 2021
- Led students individually or in small groups in Calculus, Multivariable Calculus, Linear Algebra, Real Analysis and Abstract Algebra

Wake Forest University Research Fellowship                                                   July 2020 - August 2020

***Sarah Raynor: Symplectic Topology and Gromov's Nonsqueezing Theorem***
- Investigated history and development of the relatively new field closely linked to physics
- Self-taught many aspects of mathematics to understand the ideas present in the field: algebraic topology, differential topology, homological algebra

## OTHER:

**Languages: S**panish (fluent)

**Interests:** Playing chess, Reading, Working with the GNU/Linux operating system, cooking