

Richard Diaz

Winston-Salem, NC 27106 • (201) 988-9582 • richard.sd0007@gmail.com

SKILLS

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

PROJECTS

DulyNoted (Javascript, React, Python, Flask)

[live](#) | [github](#)

A clone of the popular note taking app *Evernote* which allows users to create notes and organize them in notebooks

- Created an autosave feature on notes to give the user a cleaner and less worrisome experience
- Compartmentalized the different components of the application 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.

- Assisted team by being available and providing debugging help and catching errors quickly
- Led the team in creating a complex database to store and retrieve data associated with the many different types of transactions which may involve multiple users

AirBorNot2B (Javascript, React, Express)

[live](#) | [github](#)

A clone of *AirBnb*, the home hosting site which allowed users to create listings and leave reviews

- Utilized React and Redux to efficiently control the data flow of the application
- Created an efficient backend application to quickly and reliably retrieve data stored in the database

EDUCATION

Wake Forest University

Winston-Salem, NC

Bachelor of Science

May 2022

Major: Mathematics, Minor: Linguistics

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

Major GPA: 3.3 / 4

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 weekly study sessions for students to aid 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
- Guided students with next steps if further support was necessary

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 and August 2020

Sarah Raynor: Symplectic Topology and Gromov's Nonsqueezing Theorem

- Investigated the history and development of the relatively new field of mathematics which is closely linked to physics, symplectic topology
- Taught myself many aspects of mathematics to understand the ideas present in the field: algebraic topology, differential topology, homological algebra

OTHER:

Languages: Spanish

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