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 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 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 in creating a complex 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

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 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: Spanish

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