

# John Watkins

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## Education

**University of Virginia**  
*B.S., Computer Science*

Charlottesville, Virginia  
*Graduating May 2020*

## Professional Experience

### RTS Labs

*Software Engineer Intern*

Richmond, Virginia  
*June 2019 - August 2019*

- Used React to build the front-end for a web app that allowed employees of the company to more easily claim rooms for meetings and make meetings. Worked with other interns to establish how the back-end, written in Java Spring Boot, and the front-end would communicate with each other.
- Used Postman to and suite of tests written in React/Typescript to test endpoints of an API written in Java Spring Boot.

### Norfolk Wire

*Database Support Intern*

Virginia Beach, Virginia  
*June 2018 - August 2018*

- Wrote SQL queries to find relevant products in the database.
- Wrote macro scripts to automate very repetitive tasks throughout the company.
- One script written drew directly from data given by a SQL client that accessed the database.

## Projects

### Class Scribe

- Built out the backend using Django REST framework so it can communicate with a Raspberry Pi that takes intermittent pictures of notes and records the audio of the lecture so they can be synced on the web app.
- Used React to create the frontend so students can access the notes taken by the Pi, where they can see what they were writing when the professor said something in lecture.
- The Raspberry Pi uses machine learning algorithms from the OpenCV Python libraries to determine when a new page has been reached so the history of the distinct pages can be separated.
- Planning on scaling this project to multiple lamps(Raspberry Pis connected to a camera and a microphone) per many classrooms with many students and teachers being able to use the service.

### DinDin

- A mobile app written for a mobile app development class in React Native that was used to schedule dinner dates.
- Used Google Firebase for the backend.

### Study Buddies

- A web app written in Django which would allow people to get together to study for tests.
- Built with a team of four other people for a software development class using an agile framework with two week long sprints.

## Relevant Coursework

- Advanced Software Development(CS 3240)
- Program and Data Representation(CS 2150)
- Mobile Application Development(CS 4720)
- Algorithms(CS 4120)
- Computer Architecture(CS 3330)