

# Tirth Shroff

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## EDUCATION

### VIRGINIA TECH

(Blacksburg, VA)

#### B.S. IN COMPUTER SCIENCE

#### MINOR IN MATH

Expected Graduation: May'22

College of Engineering

Cum. GPA: 3.76 / 4.00

Dean's List: Fall'18 | Spring'19 |

Fall'19 | Spring'20

## SKILLS

### FRONTEND

HTML5 • CSS3 • Bootstrap 4 •  
Javascript • jQuery • React.js

### BACKEND

Node.js • Express.js • Rest API's

### LANGUAGES

Java • Python • MATLAB •  $\text{\LaTeX}$

### DATABASES

SQL • MongoDB

### VERSION CONTROL

Git/Github

## COURSEWORK

### COMPUTER SCIENCE

Intro to Software Design

Softw. Des. & Data Struct.

Problem Solving in CS

Computer Organization

Cloud Software Dev.

### MATH

Calculus: I, II, & III

(Teaching Asst: 1 year)

Linear Algebra

Differential Equations

Discrete Math

Applied Combinatorics

Statistics

### OTHER

Eng. Foundation: I & II

(Teaching Asst: 1 semester)

Principles of Economics

Intro to ECE

Public Speaking

Technical Writing

## PROJECTS

### GOOGLE KEEP CLONE | [GITHUB](#), [WEBSITE](#)

Summer'20 | Blacksburg, VA

- Built a solid React app inspired from the very known "Google Keep" app.
- Used conditional rendering and state management to feature the behavior.
- Implemented react hooks and props for more functionality and readability.

### SIMON GAME | [GITHUB](#), [WEBSITE](#)

Summer'20 | Blacksburg, VA

- Modelled a "Kids Favorite" game using fundamental data structures.
- Took care of the commands and user prompts with Javascript and jQuery.
- Maintained a vintage Simon game design while structuring the user interface with HTML/CSS and Bootstrap.

### WEATHER APP | [GITHUB](#)

Summer'20 | Blacksburg, VA

- Assembled a weather application using Node.js and the express.js framework.
- Used a specific Weather API to make callbacks for the current location and the respective weather data.

### DRUM KIT | [GITHUB](#), [WEBSITE](#)

Summer'20 | Blacksburg, VA

- Built a basic instrument(drum) based web app using Javascript and Bootstrap.
- Executed jQuery code to bring in audio functionality for touch/click and keyboard commands.

### TINDOG | [GITHUB](#), [WEBSITE](#)

Summer'20 | Blacksburg, VA

- Created a static "Tinder for dogs" website using HTML/CSS and Bootstrap.
- Implemented minor functionality with Javascript for using the navigation bar and swiping across the fictional customer feedback page.

## WORK EXPERIENCE

### GRADER | MATHEMATICS DEPARTMENT

Sept 2019 – Present | Blacksburg, VA

- Helped the professor in making answer keys for Calculus: I & II assignments.
- Evaluated and graded the performance for a batch of 120 students.

### UNDERGRAD TEACHING ASSISTANT | ENGINEERING DEPARTMENT

Aug 2019 – Dec 2019 | Blacksburg, VA

- Facilitated in-class activities and illustrations for a bath of 140 students.
- Grading MATLAB assignments was one of the main responsibilities.

### IOT INTERN | ALLIED DIGITAL SERVICES LIMITED

June 2019 – Aug 2019 | Mumbai, India

- Conceptualized small IoT projects to learn software to micro-controller interfacing mainly using Python and Arduino.
- Assisted senior engineers with programming in their ongoing projects on Smart-lighting and Smart-parking.
- Executed practically and gained hands on experience in programming the Raspberry Pi and the basic layout of the MQTT protocol.