

Tirth Shroff

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EDUCATION

VIRGINIA TECH

(Blacksburg, VA)

B.S. IN COMPUTER SCIENCE

MINOR IN MATH

Expected Graduation: May 2022

College of Engineering

Dean's List: (All Semesters)

Cum. GPA: 3.75 / 4.00

SKILLS

FRONTEND

HTML5/CSS3 • JavaScript •
TypeScript • React • Angular

BACKEND

Node.js • Express.js • Rest API's

LANGUAGES

Python • Java • MATLAB • \LaTeX

DATABASES

SQL • MongoDB

VERSION CONTROL

Git/Github

COURSEWORK

COMPUTER SCIENCE

Software Design

Data Struct. & Algorithms

Data & Algorithm Analysis

Computer Organization

Problem Solving in CS

(Teaching Asst: present)

Comparative Languages

Cloud Software Dev.

GUI Programming

MATH

Calculus: I, II, & III

(Teaching Asst: present)

Linear Algebra

Discrete Math

Applied Combinatorics

Applied Cryptography

Statistics

OTHER

Public Speaking

Technical Writing

WORK EXPERIENCE

SOFTWARE ENGINEERING INTERN | VIRGINIA TECH ARC LAB

May 2021 – Aug 2021 | Blacksburg, VA

- Developed and Maintained a web-interface for remote access of launching experiments and displaying past experiments for a senior level course.
- Worked on different schemas in MongoDB to make the backend more efficient and modular along with a role-based system to account for Students and Professors separately.
- Built and launched the Login & Authentication functionality for the website using Node.js and JavaScript.
- Redesigned the UI elements of the website and started the process of shifting the codebase to a more component based system using the MERN stack.

UNDERGRAD TEACHING ASSISTANT | CS DEPARTMENT

Aug 2020 – Present | Blacksburg, VA

- Facilitate in-class activities and illustrations for a batch of 140 students.
- Hold doubt sessions for python and grade problem-solving assignments.

GRADER | MATHEMATICS DEPARTMENT

Sept 2019 – Present | Blacksburg, VA

- Help the professor in making answer keys for Calculus: I, II & III assignments.
- Evaluate and grade the performance for a batch of 120 students.

PROJECTS

AMAZON CLONE | [GITHUB](#), [WEBSITE](#)

Summer 2021 | Blacksburg, VA

- Constructed a Fullstack E-commerce website using the MERN Stack.
- Implemented "Sign-In & Authentication" functionality with Firebase.
- Added a "Checkout & Payment" feature using the Stripe API.
- Extensively used React Components for readability and ease of maintenance.
- Efficiently used MongoDB to retain previous order information for each user.

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

Summer 2020 | Blacksburg, VA

- Built a robust React app inspired from the very known "Google Keep" app.
- Used react props to make multiple components for clean and readable code.
- Created the retaining characteristics of the notes using conditional rendering.
- Implemented react hooks to manage state while we add/delete notes and update the page in real time.

BLOG WEBSITE | [GITHUB](#)

Summer 2020 | Blacksburg, VA

- Built a concrete website for writing daily blogs or for journaling.
- Implemented Embedded JavaScript (EJS) Templates for keeping a clean and readable codebase.
- Used Bootstrap4 for styling the entire website.

WEATHER APP | [GITHUB](#)

Summer 2020 | Blacksburg, VA

- Assembled a weather application using Node.js and the express.js framework.
- Used a specific Weather API for callbacks to enable real time weather data.