Tirth Shroff

tshroff2801@gmail.com | Blacksburg, VA | 540-998-9161
github.com/tirth2801 | tirth2801.github.io/portfolio/ | linkedin.com/in/shrofftirth/

EDUCATION

VIRGINIA TECH
(Blacksburg, VA)
B.S. IN COMPUTER SCIENCE
MINOR IN MATH
Expected Graduation: May'22
College of Engineering
Dean's List: (All Semesters)
Cum. GPA: 3.75 / 4.00

SKILLS

FRONTEND
HTML5/CSS3 • JavaScript •
React.js • TypeScript • AngularJS

BACKEND
Node.js • Express.js • Rest API's

LANGUAGES
Java • Python • MATLAB • LaTeX

DATABASES
SQL • MongoDB

VERSION CONTROL
Git/Github

COURSEWORK

COMPUTER SCIENCE
Software Design
Data Struct. & Algorithms
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
Differential Equations
Discrete Math
Applied Combinatorics
Applied Cryptography
Statistics

OTHER
Public Speaking
Technical Writing

PROJECTS

AMAZON CLONE | GITHUB, WEBSITE
Summer'21 | Blacksburg, VA
- Constructed a completely functional Full Stack E-commerce website using React, Node.js, and MongoDB.
- Implemented "Sign-In & Authentication" functionality using Firebase.
- Added a "Checkout & Payment" feature using the Stripe API.
- Used multiple react hooks like "useState()" and "useEffect()" for state management and updating the DOM after rendering it.

GOOGLE KEEP CLONE | GITHUB, WEBSITE
Summer'20 | Blacksburg, VA
- Built a robust React app inspired from the very known "Google Keep" app.
- Implemented react hooks and props for more functionality and readability.
- Solved the retaining characteristic of notes with conditional rendering and state management.

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 to enable kids play it digitally.

WEATHER APP | GITHUB
Summer'20 | 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.

WORK EXPERIENCE

SOFTWARE DEVELOPER INTERN | VIRGINIA TECH ARC LAB
May 2021 – Aug 2021 | Blacksburg, VA
- Updated backend of a Senior-Level course website using MongoDB.
- Added extra functionality on the Frontend for navigation using jQuery.
- Started converting the entire codebase into 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.

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.