

# Elliot Topper

Oakhurst, NJ

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## Education

The College of New Jersey (TCNJ), Ewing, NJ

Bachelor of Science in Computer Science, Minor in Interactive Multimedia

May 2025

GPA: 3.99 / 4

## Skills

**Languages:** Javascript, Typescript, Python, Java, PHP, C, C++, C#

**Tools & Frameworks:** React, Next.js, Node.js, Express, Flask, jQuery, TailwindCSS, Bootstrap, Unity, MATLAB

**Frontend Tools:** HTML, CSS, Yarn, NPM, Material UI, FontAwesome

**Backend Tools:** Git/GitHub, PostgreSQL, MySQL, MongoDB, Redis, Firebase

**Other Skills:** Software Engineering, Web Design, Debugging, Data Science, Collaborative Problem Solving, Public Speaking, Leadership, Technical Writing

## Work and Research Experience

- **National Institute of Standards and Technology (NIST)**, Boulder, CO June 2024 - Aug 2024  
Full-Stack Development Intern (SURF Research Fellow - Statistical Engineering Division)
  - Developed a *Python* web application to dynamically calculate microbial Limits of Detection (LOD)
  - Improved performance and accessibility of existing web applications through consultation
  - Developed a tool in *Python* for generating future web applications for statistical models
- **Department of Computer Science, TCNJ**, Ewing, NJ Jan 2022 - July 2023  
Virtual Reality Research Assistant (MUSE Fellow - Dr. S.M.S. Ferdous)
  - Collected and analyzed electroencephalogram (EEG) data in VR using *MATLAB* and *Python* to develop standardized processes of data analysis for cybersickness research
  - Developed an online data management portal for cybersickness studies in a team environment, using *PHP* and *MySQL*
  - Conducted and managed a study in cybersickness data collection
  - Funded by NSF
- **Computer Science Department Drop-In Tutor** Sept 2024 - May 2025
  - Courses tutored: Introduction to Computer Science, Data Structures, Discrete Structures, Computer Architecture, Analysis of Algorithms, Database Systems, Operating Systems, Programming Languages, Software Engineering
- **Computer Science Peer Mentor - Introduction to Computer Science, Data Structures** Sept 2023 - Dec 2024

## Conference Presentations and Papers

- “Visualsickness: A web application to record and organize cybersickness data.” E. Topper, P. Arroyave, S.M.S. Ferdous. *2023 IEEE Conference on Virtual Reality and 3D User Interfaces*. Shanghai, China (Virtual). 25-29 March 2023. Corresponding manuscript: 10.1109/VRW58643.2023.00104.
- “Initial feasibility study of a child friendly animated cybersickness questionnaire.” P. Arroyave, E. Topper, M. Kahora, S.M.S. Ferdous. *ACM CHI 2023*. Hamburg, Germany. 23-28 April 2023.

## Projects and Collaborations

- [elliotttopper.com](https://elliotttopper.com) - Portfolio website built in *Next.js* and *MongoDB*, which showcases my project work
- [List n' Learn](#) - Visually-accessible flashcard application, built collaboratively in *React* with *MongoDB*
- [WordAround](#) - Wordle-like puzzle game that challenges players to guess letters in a circularly-oriented word; developed in *HTML*, *CSS*, and *JavaScript*

## Honors and Awards

TCNJ Computer Science Fourth Year Award - 2025; TCNJ Computer Science Dean's List (Fall 2021 - Spring 2025); TCNJ Computer Science Third Year Award - 2024; Phi Kappa Phi - 2024; Upsilon Pi Epsilon - 2023; TCNJ Computer Science Second Year Award - 2023; TCNJ Computer Science First Year Award - 2022; HackTCNJ Best Hack - 2022

## Activities

- **TCNJ Japanese Student Association**, Ewing, NJ Apr 2024 - May 2025  
President (100+ members, 10 board members, over 25 events) Apr 2023 - May 2024  
Treasurer (managed a \$30,000 budget) Apr 2022 - May 2023  
Fundraising Co-Chair (fundraised over \$1,800)
- **Other Affiliations:** Asian American Association, TCNJ Barkada, Guatemalan Student Association, Korean Student Association, Vietnamese Student Association