

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