

Elliot Topper

Oakhurst, NJ

xaridar.github.io

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Technical Proficiencies

Languages: Java, Javascript, Typescript, Python, PHP, C, C++, MATLAB

Frameworks: Node.js, Express.js, jQuery, Bootstrap, TailwindCSS, Unity

Frontend Tools: HTML, CSS, EJS, ReactJS

Backend Tools: Git, MySQL, PostgreSQL, Redis, Firebase

Education

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

Bachelor of Science in Computer Science

Expected graduation: May 2025

Grade Point Average: 4.0

Work and Research Experience

Department of Computer Science, TCNJ, Ewing, NJ

Student Researcher (VR) - Dr. S.M.S. Ferdous

January 2022 - July 2023

- Developed an online data management portal for cybersickness studies using *PHP, MySQL, HTML, CSS, Bootstrap, jQuery*, and *Git*
- Conducted and managed a study in cybersickness data collection
- Collected and analyzed electroencephalogram (EEG) data in VR *Unity MATLAB*, and *Python*

Six Overground, Asbury Park, NJ

Intern

February 2021 - April 2021

- Added functionality to a public-facing API for extended capabilities using *JavaScript* and *Git*
- Advanced development on migration of an application between mobile platforms using *Java*

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*.

“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

LScript - Programming language interpreter written in *Java*

RAT - Simple to use and opinionated templating engine built using *Node.js, Express.js*, and *Typescript* for use in simple web apps

Bullseye - Android games application to help children with ADHD, developed with a team for the 2021 Congressional App Challenge in *Java*

Dungeon of Curses - Text-based roguelike game which won Best Hack at the HackTCNJ 2022 hackathon in *Python* and the ncurses library

Links and more detailed information on notable projects can be found at xaridar.github.io/projects.

Honors and Awards

TCNJ Department of Computer Science Second Year Award - 2022; TCNJ Department of Computer Science First Year Award - 2023; HackTCNJ Best Hack - 2022

Leadership Positions

TCNJ Japanese Student Association, Ewing, NJ

Fundraising Co-Chair

Treasurer

April 2022 - May 2023

April 2023 - Present