Elliot Topper

Oakhurst, NJ
xaridar.github.io   xaridara@gmail.com
linkedin.com/in/elliot-topper   github.com/xaridar

Technical Proficiencies

Languages: Java, Javascript, Typescript, Python, PHP, C, C++
Tools & Frameworks: Node.js, Express.js, jQuery, Bootstrap, TailwindCSS, Unity, MATLAB
Frontend Tools: HTML, CSS, EJS, ReactJS
Backend Tools: Git/GitHub, MySQL, PostGreSQL, Redis, Firebase
Other Skills: Problem Solving, Public Speaking, Collaboration, Leadership, Academic Writing

Education

The College of New Jersey (TCNJ), Ewing, NJ   *May 2025 (expected)*
   Bachelor of Science in Computer Science, GPA: 4.0

Work and Research Experience

- **TCNJ Tutoring Center**, Ewing, NJ
  Student Tutor   *Sept 2023 - Dec 2023*
- **Department of Computer Science, TCNJ**, Ewing, NJ
  Computer Science Peer Mentor   *Sept 2023 - Present*
  Student Researcher (VR) - Dr. S.M.S. Ferdous   *Jan 2022 - July 2023*
  - Developed an online data management portal for cybersickness studies in a team
  - Conducted and managed a study in cybersickness data collection
  - Collected and analyzed electroencephalogram (EEG) data in VR using *Unity, MATLAB*, and *Python* to develop standardized processes of data analysis for cybersickness research
  - Co-authored two conference papers, detailed below

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*. Corresponding manuscript not published.

Projects and Collaborations

- **ImageProc** - Modular image processing framework developed in *Java*
- **Dungeon of Curses** - Text-based roguelike game which won Best Hack at the HackTCNJ 2022 hackathon in *Python* and the ncurses library, developed collaboratively
- **LScript** - Interpreter for a custom programming language, written in *Java*

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

Honors and Awards

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

Leadership Positions

- **TCNJ Japanese Student Association**, Ewing, NJ
  Treasurer   *Apr 2023 - Present*
  Fundraising Co-Chair   *Apr 2022 - May 2023*
- **Upsilon Pi Epsilon Honor Society**, Ewing, NJ
  Secretary   *Sept 2023 - Present*