

Dylan Toth

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EDUCATION

The University of Tennessee
Bachelor of Science in Computer Science

Expected 2025
Knoxville, TN

PROJECTS

Knoxville News Aggregator | *Next.js, Node.js, Python, TypeScript* July 2022 — Present

- Developed a full-stack web application to concentrate important news in Knoxville, TN on a single page
- Implemented a python web scraper to gather and store important headlines from numerous news websites in a PostgreSQL database
- Constructed AJAX workflows to maintain the latest data served from the Node.js backend
- Used the cron command line utility and a shell script to schedule the scraper to run every four hours

Personal Date Tracker | *Docker, Next.js, Node.js, TypeScript* May 2022 — July 2022

- Created a full-stack web application to aggregate and display important dates and holidays
- Allowed users to create custom calendars and see important changes in real time
- Utilized a PostgreSQL database to save user interactions and allow for cross-platform use
- Dockerized the Node.js backend and PostgreSQL database to minimize dependency conflicts and speed up development
- Implemented Google OAuth 2.0 and server-side session management to ensure proper authentication

Twitch Chat Analysis | *Python, Tableau* May 2022 – June 2022

- Created an IRC Bot with Python to retrieve chat messages during live streams
- Analyzed and exported over 100,000 unique messages based on frequency
- Displayed results of analysis through a Tableau Dashboard

Apex Legends Leaderboard | *Next.js, TypeScript* May 2022

- Designed a web application to display player statistics from a popular game
- Utilized the Apex Legends public API to access data based on user queries
- Served data to a Next.js frontend in a leaderboard format with real-time updates
- Accessed the browser's local storage to persist player data

News Bias App | *JavaScript, Python, MySQL* April 2022 – May 2022

- Utilized a python web scraper to gather and store news headlines in a MySQL database
- Parsed data to analyze the occurrence of popular keywords and classify them based on political stance
- Served results to a JavaScript web page through a Node.js backend

Trivia App | *React, Netlify* April 2022

- Developed a trivia web interface to display over 4,000 randomized questions in a quiz format
- Pulled questions from the Open Trivia Database API using session tokens to eliminate repeat questions
- Accessed local storage to maintain a correct answer streak
- Added support for both multiple choice and true/false questions to improve user experience

Blackjack Discord Bot | *Node.js, TypeScript* March 2022 – April 2022

- Built a discord bot with Node.js to allow server members to play blackjack
- Added all common blackjack commands to accurately portray the card game
- Implemented a SQLite database to track user currency and statistics

Personal Website | *Gatsby, React* December 2021 – January 2022

- Launched a personal portfolio to display live project demos and further contact information

SKILLS

Languages: Python, (No)SQL, HTML/CSS, TypeScript, JavaScript

Frameworks and Libraries: React, Next.js, pandas, Node.js, Express.js, Gatsby

Developer Tools: Git, Docker, VS Code, Tableau