

Dylan Toth

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EDUCATION

The University of Tennessee
Bachelor of Science in Computer Science

Expected 2025
Knoxville, TN

PROJECTS

Personal Date Tracker

Docker, Next.js, Node.js, TypeScript

- 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

Apex Legends Leaderboard

Typescript, Next.js

- 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

Twitch Chat Analysis

Python, Tableau

- 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

Knoxville News Aggregator

Next.js, Python, TypeScript, Node.js

- 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

Blackjack Discord Bot

Node.js, TypeScript

- 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

News Bias App

Javascript, Python, MySQL

- 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

- 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

Personal Website

Gatsby, React

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

SKILLS

Languages: Python, SQL (PostgreSQL, MySQL), NoSQL (MongoDB), HTML/CSS, JavaScript, TypeScript

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

Developer Tools: Git, Docker, VS Code, Tableau