

Dylan Toth

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EDUCATION

The University of Tennessee
Bachelor of Science in Computer Science

Expected 2025
Knoxville, TN

EXPERIENCE

Systems Analyst Intern

August 2022 – December 2022

The University of Tennessee

Knoxville, TN

- Wrote and maintained a Python script to identify and flag issues in over 3000 user accounts before errors arise when accessing the clusters
- Helped transition over 400 outdated user profiles from the LDAP on a legacy cluster to LDAP on a brand new cluster
- Created and documented multiple GPU example jobs on Jupyter Notebook to assist users with navigating the Slurm Workload Manager and utilizing the Open OnDemand High Performance Computing portal

PROJECTS

School Dashboard | *SvelteKit, Typescript*

June 2023 – Present

- Created a personalized dashboard to display homework assignments gathered from several websites
- Utilized the Canvas API to pull data directly from the users profile in order to ensure the information displayed is up to date
- Used Google OAuth 2.0 to authenticate users and store their preferences

HTTP Server | *C*

June 2023

- Designed a simple HTTP server which accepts GET and HEAD requests to serve static HTML to the client

Marvel Snap Public API | *Fastify, Node.js, NGINX, TypeScript*

March 2023

- Created and deployed a public API for an online card game with over 150 cards and their properties
- Stored cards in a MongoDB database hosted on Atlas and accessed these cards through a Fastify backend
- Utilized RESTful API best practices when designing the API and implementing endpoints
- Hosted API on a DigitalOcean Droplet and configured NGINX as a reverse proxy to receive HTTPS query requests

Knoxville News Aggregator | *Next.js, Node.js, Python, TypeScript*

December 2022

- 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 more than 100 unique headlines from numerous news websites in a PostgreSQL database
- Constructed AJAX workflows to maintain the latest data served from the Node.js backend

Apex Legends Leaderboard | *Next.js, TypeScript*

October 2022

- Designed a web application to display player statistics from a popular game
- Used 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

SKILLS

Languages: Python, SQL, HTML/CSS, TypeScript, JavaScript, Java

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

Developer Tools: Git, Docker, Tableau, Slurm

EXTRACURRICULAR ACTIVITIES

Association for Computing Machinery

September 2022 — Present

UTK Rock Climbing Club

August 2022 — Present