

Jacob Nye

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WORK EXPERIENCE

US Signal - NOC Technician

September - December 2024

- Troubleshoot Cisco ONS 15454 nodes using DWDM and SONET technologies with Transport and OSP Engineers.
- Monitored network alarms via OpenNMS; resolved issues on backbone Adtran, Cisco, and Tellabs gear.
- Coordinated field tech dispatch and vendor escalations to resolve fiber cuts/issues within SLA targets.
- Managed change windows, maintenance events, and incident documentation using Salesforce.

EDUCATION & CERTIFICATIONS

University of Michigan - Dearborn

December, 2022

B.S. Software Engineering

- Graduated summa cum laude with GPA 3.97

Cisco Certified Network Associate (CCNA 200-301)

July, 2024

PROJECTS

Dodge Tracker – *React, Flask, Python, MySQL, Typescript, Tailwindcss*

Live tracks League of Legends dodges via Riot API. Full-stack app with continuous data polling and SQL-based player stat tracking. Uses threading to get faster checks for each region asynchronously.

Letterboxd Higher or Lower – *React, Express, PostgreSQL, Redis, Typescript, Axios, Cheerio, Tailwindcss*

Users pick higher rated movie game. Scraped 11,000 Letterboxd entries; stored in PostgreSQL. Redis for cache checking. Google OAuth2.0 logins. Cookie auto-login. Multiple difficulties. Backend anti-trust logic.

Wordle Clone – *React, Express, Typescript, Tailwindcss*

Word guessing game playable either online or offline. Has the look and feel of Wordle including word checking, animations, and error handling. Allows users to play continuously.

Class Guides – *PHP, MySQL, Javascript, Bootstrap 5*

Social site for students to share and rate course resources for UofM courses. Full CRUD, admin panel, search, comments and leaderboard.

Translation Networks – *PHP, Javascript, Bootstrap 4*

Refactored legacy media archive site used by UofM students. Worked with client to complete all user stories and backlogs, including WCAG 2.1 AA, search UX, dynamic forms, and layout per client feedback.

SKILLS

Languages: Python, C/C++, JavaScript, Typescript, SQL, HTML, CSS

Frameworks: React, Flask, Express, Tailwindcss, Nodejs

Networking: CCNA-level, DWDM, VLANs, OSPF, ACLs, DHCP, DNS, IPv4/6

Tools: Redis, VS Code, Git, Github, OpenNMS, Cisco Transport Controller, Salesforce