

David Thissen

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EDUCATION

University of Delaware

Newark, DE

Bachelor of Science in Computer Science, Minor in Math

August 2023 – May 2027

- Relevant Coursework: Data Structures, Algorithms, Software Engineering, Systems Programming, Discrete Math, Linear Algebra, and Calculus A–C

EXPERIENCE

Software Engineer Intern

May 2025 – Present

VSSi | Visual System Solutions & Integration

Remote – Arlington, VA

- Refactored and modularized legacy WordPress theme code using PHP, JavaScript, and ACF to enable dynamic content rendering and improve site maintainability, reducing load times by over 40%.
- Engineered and deployed custom JSON-LD schema injection scripts to programmatically generate structured data across service pages, enhancing SEO without relying on third-party plugins.
- Diagnosed and resolved front-end performance bottlenecks using Lighthouse and Chrome DevTools, contributing to Core Web Vitals improvements and ensuring full accessibility and responsive design compliance.

President/Founder

November 2024 – Present

Professional Computing Society

Newark, DE

- Founded and lead a student organization focused on collaborating and building real-world application projects, fostering innovation and hands-on experience among members.
- Guided teams in developing impactful projects, coordinating brainstorming sessions, and ensuring the successful delivery of solutions addressing real-world challenges.
- Facilitated joint meetings with peer computer science organizations and coordinated guest speaker events featuring industry professionals.

HenHacks 2025 Award Winner

March 2025

University of Delaware

Newark, DE

- Led the development of Nutrify, an innovative AI-powered nutrition tracking application that won recognition among over 1,000 participants for its creative use of the Gemini API. The project demonstrated exceptional technical implementation and user experience design.
- Collaborated with a cross-functional team to design, code, and present the application within a 24-hour deadline.
- Delivered a live demo and technical presentation to judges, receiving commendation for innovation and practical real-world application.

PROJECTS

Nutrify | Python, Flask, React, SQLAlchemy, Gemini API, HTML/CSS, JavaScript

March 2025 – Present

- Built a full-stack AI-powered web application to help users track nutrient intake and achieve dietary goals.
- Integrated the Gemini API for advanced food image analysis and real-time nutrient identification.
- Designed and implemented a secure user authentication system with session management.
- Developed an interactive dashboard for nutrient tracking, progress monitoring, and goal setting.

CostCheck | Next.js, Typescript, PostgreSQL, BLS API, USDA API, Tailwind CSS,

February 2025 – Present

- Developed a modern price-tracking dashboard using Next.js (React, TypeScript), integrating real-time grocery and household item price data from the Bureau of Labor Statistics (BLS) and USDA APIs.
- Designed and implemented a responsive, user-friendly UI with Tailwind CSS and shadcn/ui component library, featuring dynamic tables, interactive charts, and live search/filter functionality.
- Engineered serverless API routes in Next.js to securely proxy and aggregate third-party data, overcoming CORS limitations and ensuring seamless client-server integration.

TECHNICAL SKILLS

Languages: Javascript, Python, C/C++, SQL, Typescript, HTML/CSS, R, ASM

Frameworks: React, Next.js, Node.js, Flask, Express.js, Tailwind CSS, JUnit, WordPress, Material-UI, FastAPI

Developer Tools: Git, Cursor, Vercel, WebEz, VS Code, PyCharm, Axios, Eclipse

Libraries: Pandas, NumPy, Matplotlib, Llama, PyTorch