

# 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*

- Optimized website performance and SEO by auditing Core Web Vitals and deploying structured data (JSON-LD) using Rank Math.
- Implemented custom schema markup across multiple service and job pages to improve discoverability and search engine visibility.
- Configured WordPress plugins and theme settings to enhance site speed, accessibility, and mobile responsiveness.

### 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 shaden/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.
- Leveraged React hooks and Axios for efficient state management and asynchronous data fetching, providing users with up-to-date market insights.

## 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