

David Thissen

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EDUCATION

University of Delaware

Newark, DE

Bachelor of Science in Computer Science, Minor in Mathematics | GPA: 3.55

August 2023 – May 2027

- Relevant Coursework: Data Structures, Algorithms, Machine Learning, Artificial Intelligence, Parallel Computing, Software Engineering, Systems Programming, Linear Algebra
- Honors: Dean's List (6 semesters)

EXPERIENCE

Software Engineer Intern

June 2026 – August 2026

Deloitte | Government & Public Services

Arlington, VA

- Designed and shipped a full-stack workforce management platform (React/TypeScript, Flask) for a federal client, used in production by hundreds of staff as the engagement's single source of truth for portfolios, contracts, and clearance tracking.
- Architected the secure AWS GovCloud deployment: containerized on Kubernetes (EKS), synced an encrypted roster from Amazon S3 via IAM role-based auth (IRSA) with zero credentials in code, served over a private VPN.
- Replaced manual spreadsheet workflows with live workforce KPIs, cross-filtered analytics, a searchable 37-field roster, and an AI-powered onboarding pipeline drafting templated emails for human-reviewed sending.
- Launched a voice-to-text input feature for the client's flagship AI application, enabling hands-free use.
- Accelerated delivery with an agentic development workflow (Claude Code), building a reusable design system and a 227-test automated suite in a single summer.

Software Engineer Intern

May 2025 – May 2026

VSSi | Visual System Solutions & Integration

Remote

- 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.
- Resolved front-end performance bottlenecks with Lighthouse and Chrome DevTools, improving Core Web Vitals, accessibility, and responsive design compliance.

President/Founder

November 2024 – Present

Professional Computing Society

Newark, DE

- Founded and lead a 50+ member student organization building real-world software projects; host industry guest speakers.

PROJECTS

Nutlify | Python, Flask, React, SQLAlchemy, Gemini API

March 2025

- Won Best Use of Gemini API at HenHacks 2025 (1,000+ participants); built and demoed live in 24 hours.
- Built a full-stack web app that analyzes food photos with the Gemini API to identify nutrients in real time and track intake against dietary goals in an interactive dashboard.

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

February 2025

- Developed a price-tracking dashboard in Next.js (React, TypeScript) integrating real-time grocery price data from BLS and USDA APIs.
- Implemented a responsive UI with Tailwind CSS and shadcn/ui, featuring dynamic tables, interactive charts, and live search/filter functionality.
- Engineered serverless API routes to securely proxy and aggregate third-party data across CORS boundaries.

TECHNICAL SKILLS

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

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

Cloud & Tools: AWS (EKS, S3, IAM, GovCloud), Kubernetes, Docker, Git, Claude Code, BMAD, Cursor, Pandas, NumPy, PyTorch