THOMAS SHORE

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[LinkedIn](#) | [Portfolio Website](#) |[GitHub](#)

SUMMARY

Computer Science Engineering student specializing in full-stack development and machine learning. Passionate about building data-driven applications and seeking a software engineering internship to apply skills in Python, React, and cloud deployment.

EDUCATION

The Ohio State University, College of Engineering | May 2026   **GPA: 3.21/4.00**

B.S. Computer Science Engineering

Honors & Awards: Recipient of the National Buckeye Scholar Scholarship

SKILLS

- Languages: Java, JavaScript, Python, C, Assembly, MATLAB, HTML/CSS, Ruby
- Frameworks & Libraries: React, Node.js, Express, FastAPI, Mongoose, TensorFlow, PyTorch, Pandas, NumPy, Ruby on Rails, Middleman
- Databases, Cloud & Tools: AWS, MongoDB, SQL, Git, GitHub, Vercel

PROJECT EXPERIENCE

AI Academic Assistant (Personal) | [GitHub](#)   **July 2025 – Present**

- Architected a full-stack MERN (MongoDB, Express, React, Node.js) application in a modular monorepo to transcribe lectures and organize course materials.
- Engineered an AI knowledge base by processing user-uploaded syllabi and notes (PDFs, DOCX) with the OpenAI API, enabling a RAG-powered homework helper.
- Developed an AI pipeline to parse syllabi, automating the creation of 50+ calendar events per course and reducing manual student setup time by over 95%.

Stock Analysis Model (Personal) | [GitHub](#) | [Live Demo](#)   **May 2025 – July 2025**

- Engineered a full-stack stock prediction platform featuring a Python backend and a React frontend, deployed on Vercel.
- Built an LSTM model in TensorFlow that achieved a 98% accuracy improvement over a baseline, forecasting prices with a Mean Absolute Error of $4.06.

EXPERIENCE

The Ohio State University, College of Engineering | Columbus, OH   **July 2025 – Present**

Student Research Assistant

- Develop, train, and validate machine learning models with PyTorch to analyze eye-tracking data, quantifying correlations between gaze patterns and visual learning.
- Engineered a data-cleaning pipeline using Python (Pandas) to preprocess and validate large-scale datasets, reducing manual data preparation time by 5 hours per week.
- Conduct lab experiments with over 300 participants and assist in the statistical analysis of research data.

Apex Dental Solutions| Palm Beach, FL   **May 2025 – August 2025**

Software Engineering Intern

- Authored a Python script to fully automate the generation of daily operational reports, reducing manual data processing time by over 5 hours per week and eliminating human error.
- Designed and deployed an automated reporting system using AWS to analyze weekly patient reviews and post-care feedback, providing the management team with key insights into customer satisfaction trends.
- Collaborated in an Agile team environment, participating in daily stand-ups, sprint planning, and code reviews to deliver features iteratively.

The Ohio State University, College of Engineering | Columbus, OH   **August 2023 – December 2023**

Undergraduate Teaching Assistant

- Guided a cohort of 30+ first-year engineering students in 3D modeling and graphics using Onshape, enhancing their design skills and technical knowledge.

EXTRACURRICULAR

Phi Gamma Delta Fraternity| *Brotherhood Chair* | Columbus, OH   **August 2024 – May 2025**

- Organized chapter events for more than 100 people participating in scholarship, philanthropy, and brotherhood.

Collaborative Software Development Club| *Member* | Columbus, OH   **August 2024 – December 2024**

- Collaborated with a team to develop an AI-powered resume tool, improving functionality through software principles.