ANDREW SHILMAN

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SUMMARY

Computer Science senior at Michigan State University, graduating in May 2026, seeking a Software Engineering Internship to apply my knowledge of algorithms, software development, and problem-solving to real-world projects while expanding my technical expertise. Passionate about applying AI to software engineering, automation, and user-facing products.

EDUCATION

Bachelor of Science in Computer Science **August 2022 - May 2026**

Michigan State University | College of Engineering | Dean's List

SKILLS

AI & ML Tools: OpenAI API, GPT models, AI-driven automation, pdfminer.six, TensorFlow

Programming Languages: Python, C++, C, Java, SQL, JavaScript

Frameworks & Tools: FastAPI, Node.js, Docker, React, REST APIs

Web & Cloud: HTML, CSS, Firebase, GCP, Cloudflare

Productivity: Git, GitHub, GitLab, VS Code, Copilot/GPT

PROJECTS

AI Resume Analyzer | **pdfresumeanalyzer.ai** | OpenAI API, HTML/CSS/JS, FastAPI, PDF.js, Firebase, GCP

- Built an interactive web app that lets users upload resumes (PDF), get AI-driven scores and rewrite suggestions, and compare drafts side-by-side
- PDF.js rendering, html2pdf.js export. FastAPI microservices, pdfminer.six parsing, async GPT-40-mini. Firebase Hosting, Google Cloud Run (containerized), Cloudflare edge caching, env-based secret management

Shortest Path Algorithms | **shortestpathalgs.com** | React, Vite, Canvas API, Algorithms

- Helped students to visual search algorithms, used in AI courses. Implemented core pathfinding algorithms (A*, Dijkstra, Bellman-ford Floyd-Warshall...) for grid & graph modes.
- React 18 + Vite front-end with custom Canvas 2D rendering engine, no external libs. Firebase and Cloudflare hosted

Personal Portfolio | AndrewShilman.dev | HTML/CSS/JS, Python, Firebase, GCP, Animations

WORK EXPERIENCE

Lead Instructor, Code For Fun **May 2022 - Aug 2024**

- Taught programming to classes of 30+ students (including AP-level) in Python, Java, HTML/CSS/JS, Lua, and AI-focused problem solving
- Designed curriculum modules on algorithms, automation, and introductory AI concepts, used in hundreds of summer classes
- Used in coursework to support AI education in graph and search theory

RELEVANT COURSEWORK

Computer Science: AI Development, Info Management and the Cloud, Object Oriented Programming, Data Structures, Discrete Structures, Computer Organization and Architecture, Software Design, Computer Systems, Algorithms and Data Structures, Database Systems, Web App Architecture

Mathematics: Calculus, Multivariable Calculus, Matrix Algebra, Probability and Statistics Engineering