

Yale Gray

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EDUCATION

University of Oklahoma

MS/BS in Computer Science, Minor in Mathematics

- GPA: 3.9
- Relevant Coursework: Artificial Intelligence, Operating Systems, Applied Statistics, Computer Security

Norman, OK

Expected Dec 2027

WORK EXPERIENCE

Software Engineer Intern

May 2026 – Aug 2026

Flywheel Energy

Oklahoma City, OK

- Delivered full-stack features and ticket resolutions using Angular, TypeScript, HTML, SCSS, Azure SQL, also utilizing Claude Code and proprietary tools
- Built an end-to-end SPCC plan automation feature in the internal portal, replacing a fully manual paper pipeline by letting field operators capture inspection responses and photos on their own devices, with site diagrams pulled in automatically per location
- Compiled operator submissions into review-ready plans routed directly to HSE coordinators for final compilation and regulatory submission, with support for multi-session workflows and document revisions

Software Development Intern

May 2025 – Aug 2025

Paycom

Oklahoma City, OK

- Sole intern contributor to IWant, Paycom's new AI automation product, automating preliminary validation across 100+ test cases, ensuring a successful launch
- Built and maintained automated regression tests using internal tools, designing thorough test plans after conducting research across 12+ modules, improving test efficiency and contributing to faster, more reliable software releases and hotfix turnarounds

Undergraduate Teaching Assistant

Jan 2026 – Present

University of Oklahoma

Norman, OK

- Serve as TA for CS 2414: Data Structures and Algorithms, collaborating with the course professor to direct lab sessions, organize course materials, plan assignments, and grade coursework and coding assessments
- Previously TA'd CS 2813: Discrete Structures, holding office hours and providing feedback to reinforce problem-solving and conceptual understanding across both courses

Student Tutor

Jan 2025 – Present

University of Oklahoma

Norman, OK

- Serve in dual tutoring roles through OU Athletics Academic Services and the OU Math Center, providing individualized and group tutoring in Calculus I & II, College Algebra, Pre-Calculus, and Discrete Math to student-athletes and the general student population

PROJECTS

Pantry Pilot Web App | *Java, Docker, MariaDB, OpenAI API*

- Built a full-stack, AI-assisted web application with a team of developers, where users generate personalized recipes and grocery lists, track nutritional macros, and manage pantry inventory based on budget and dietary preferences
- Designed modular architecture with a Java backend, Dockerized deployment, and MariaDB for persistent data storage, with OpenAI API handling recipe generation and GitHub for version control and CI/CD integration

Park Database System | *Java, SQL, JDBC*

- Designed a multi-entity relational database for a National Park Service style system, implementing normalized schemas, referential integrity, and efficient indexing to support high-volume queries
- Built a Java JDBC interface executing parameterized queries across stored procedures for inserting, updating, and retrieving records, with consistent data validation and error handling throughout

Hacklahoma Zettelkasten App | *React, TypeScript, Tailwind, Zustand, Gemini API*

- Built an AI-powered knowledge management web app at Hacklahoma featuring a graph-based Map View that auto-generates chapter clusters from emergent note themes across a notebook-style interface
- Integrated Gemini API for automatic note summarization and tag generation, with a local heuristic fallback, and managed persistent client-side storage using Dexie/IndexedDB with Zustand for state management

SKILLS

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

Tools: React, Angular, OpenAI/Gemini APIs, SSMS, Selenium, Docker, Git, Jira, Azure

INVOLVEMENT

Officer, University of Oklahoma Artificial Intelligence Club