Andrew Mouldon Full Stack Software Engineer

andrewmouldon.xyz

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Skills	Languages: HTML5, CSS3/Bootstrap, JavaScript, Python, PHP, C++, MIPS Frameworks: Flask, React, PyTorch Databases: NoSQL (Firestore), SQL (PostgreSQL, MySQL), Tools/Dev Ops: Git, Glitch, Firebase		
		Projects	 Title: SciSum (Video demonstrations for all projects are available at andrewmouldon.xyz) Developed a responsive platform using React to generate Al-powered summaries of research papers tailored to beginner, intermediate, and advanced audiences. Implemented search and personalized recommendations using clustering algorithms for approximate nearest neighbor searches. Built a robust backend with PHP to efficiently handle multi-directional API requests, manage user preferences, and support dynamic content retrieval. Leveraged MySQL to store structured data, including metadata, summaries, and user interaction history. Title: Curiosity Developed an interactive educational platform using React for a responsive and intuitive user interface. Implemented complex learning trees, allowing users to navigate interconnected nodes for progressive topic exploration. Utilized Flask to handle backend logic, including user authentication and subscription management through Stripe for premium content access. Deployed PostgreSQL to manage and store user data, learning paths, and saved topics efficiently. Title: Book Tracker App Built RESTful API routes and leveraged the Google Books API to implement search and display functionality Utilized React to ensure a smooth and user-focused frontend experience Handled the backend API calls through Flask to facilitate the processing of user-specific data Deployed PostgreSQL to store all necessary data
		Education	 Software Engineer: Coding Temple June 2022 - January 2023 Created Web APIs that allow websites to access information stored in an SQL database Experience passing and storing data between multiple different APIs Refactored Python code to use fewer lines and reduce time and space complexity Student: SIUE June August 2023 - Present Expanding my computer science knowledge with a focus on lower-level programming and systems architecture, while further developing my understanding of data structures,

algorithms, and software engineering principles.