

Joshua Do

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EDUCATION

Northwestern University
Bachelor of Arts in Computer Science

Evanston, IL
Expected Graduation, June 2025

Relevant Coursework: Data Structures & Algorithms, Artificial Intelligence, Computer Systems, Operating Systems, Human-Computer Interaction, User Experience Design, Databases, Security, Scalable Software Architectures, and Networking.

TECHNICAL SKILLS

Languages: C, C++, Python, JavaScript, SQL, HTML/CSS
Development Tools/Frameworks: Node.js, React, Docker, AWS
Database Management: MySQL
Software/Applications: VS Code, Git, Figma

PROJECTS

- Serverless Cloud Application for PDF Analysis** | Python, SQL, AWS Lambda, S3, API Gateway November, 2024

 - Designed a serverless, event-driven application for analyzing PDFs based on Benford's Law, using AWS S3 and Lambda.
 - Implemented an asynchronous API enabling file uploads, analysis retrieval, and user management via a MySQL database.
 - Enhanced application with an authentication microservice to validate user credentials and enforce token-based access control.
 - Utilized AWS services, Python libraries (pymysql, pypdf, bcrypt), and API Gateway for scalable and secure operations.
- DreamMachine** | Python, OpenAI API, JavaScript, HTML, CSS August, 2024

 - Built an interactive web application that uses OpenAI GPT-3 to generate personalized dream scenarios based on user input.
 - Designed and developed a clean, responsive front-end using HTML, CSS, and JavaScript, ensuring a smooth and engaging user experience.
 - Implemented backend API interactions to manage data flow, handling GPT-3 prompt customization, processing user input, and delivering dynamic, player-specific scripts.
- tiilt Lab – SportSense Website** | JavaScript, React.js, Node.js, Figma February 2024

 - Designed and developed a static website using Docusaurus, integrating Human-Computer Interaction (HCI) principles to enhance user experience and accessibility.
 - Created reusable React components and templates, ensuring consistent design and streamlining content updates.
 - Conducted wireframing and prototyping in Figma, incorporating user feedback to refine navigation and visual hierarchy.
 - Optimized site architecture and implemented responsive design, delivering a seamless experience across devices.

EXPERIENCE

- Research Assistant** February 2024 - On going
Northwestern tiilt Lab

 - Collaborated with professors and graduate students on web development and UX/UI design research, focusing on improving accessibility and usability.
 - Designed and implemented responsive websites using HTML, CSS, and JavaScript to meet user-side and client-side needs.
 - Built and optimized backend functionality using Python and SQL to manage databases and support dynamic web applications.
- Sales Associate** September 2020 – September 2023
Ollie's Bargain Outlet *Eagleville, PA*

 - Ensured a smooth customer experience by managing inventory, restocking shelves, and maintaining a clean store environment.
 - Worked closely with colleagues to streamline daily operations, leveraging strong communication skills to coordinate tasks and enhance team performance.
 - Consistently recognized by supervisors with the highest monthly sales award, demonstrating a strong work ethic, efficiency in handling tasks, and dedication to meeting customer needs.

AWARDS

- QuestBridge** March 2021

 - QuestBridge Scholar