

## DEYUAN YANG

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### EDUCATION

<b>Washington University in St. Louis</b> , St. Louis, MO	<b>GPA: 3.7/4.0</b>	August 2023 – May 2026
Bachelor of Science & Master of Science in Computer Science		Expected May 2026
<b>DePauw University</b> , Greencastle, IN	<b>GPA: 4.0/4.0</b>	August 2020 – May 2023
Bachelor of Arts in Pre-Engineering and Mathematics		Degree Conferral Expected May 2026

### TECHNICAL SKILLS

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

**Cloud & AWS:** AWS S3, Lambda, DynamoDB, REST APIs, Serverless architecture

**Frameworks & Tools:** React, Next.js, FastAPI, Streamlit, Git, Docker, OAuth, JWT

**Analytics & ML:** Pandas, NumPy, Scikit-Learn, PyTorch, Tableau, PowerBI

**Data Engineering:** ETL pipelines, API integration, OLAP/OLTP, dimensional modeling

**Certifications:** Microsoft Azure AI Fundamentals (2024)

### WORK EXPERIENCE

**Progressive Web Application Developer — Livelihood Impact Fund** August 2025 – Oct 2025

- Owned end-to-end delivery of a tender-management PWA used by 100+ buyers/suppliers, including requirements, UX decisions, and feature rollout.
- Integrated **OpenAI API** to automate data extraction, reducing manual entry time by 30% and improving workflow efficiency
- Consolidated CRM processes via **Freshworks** integration, increasing cross-team visibility and communication consistency.

**Full Stack & Mobile Developer – SendBack** April 2024 – August 2025

- Led product development of a return-automation system used for thousands of transactions; collaborated with PM and engineering weekly.
- Launched cross-platform mobile app (React Native), increasing mobile engagement and session duration
- Designed scalable data architecture using AWS S3 + DynamoDB, cutting user-data latency by **15%**.
- Implemented structured logging and event instrumentation to enable downstream analytics and funnel measurement.

**Web Developer & Designer – Zaiko** June 2024 – August 2024

- Designed and shipped a full-stack inventory management product (React/FastAPI/PostgreSQL) used to track hundreds of food inventory items
- Conducted user testing that drove UX improvements, increasing task-completion speed by **25%**
- Built real-time analytics dashboards to help operations teams monitor stock levels and reduce stock-outs.

**Security & QA Analyst – Linuxjobber** Jan 2024 – May 2024

- Improved platform uptime by **15%** by redesigning stable UI workflows in Django and optimizing release QA
- Conducted end-to-end testing across features, achieving **99% documentation accuracy**.

### PROJECTS

**SynapTrack – Neuroscience Mobile Research App** Fall 2025

- Built Android app (React Native) for participant data collection, increasing potential study enrollment by 50%
- Unified iOS + Android codebases to reduce long-term maintenance costs.

**EcoTag – Sustainability Product Scanner (SVC Semi-Finalist)** Fall 2025

- Built MVP for product sustainability scoring used for the WashU Skandalaris Venture Competition (semi-finalist).
- Analyzed 400+ product attributes and embedded them into a weighted scoring model with feature adjustments based on user feedback.
- Designed quick-scan funnel metrics and landing-page conversion analysis.

**D10 – AI Agent GUI for Architectural Plan Analysis** Summer 2025

- Fine-tuned an LLM to automate object detection, improving analysis speed by 90%
- Designed Streamlit product interface enabling teams to visualize model outputs and provide structured feedback.

**Seasonal Trade-Up Platform** Spring 2024

- Delivered e-commerce product integrating eBay API, CI/CD, and Docker/Kubernetes

**WhoFundedIt – AI-Powered Research Tool** Summer 2023

- Developed NLP system to extract and summarize grant information from academic papers; validated results with research teams.