DEYUAN YANG
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EDUCATION

Washington University in St. Louis, St. Louis, MO   GPA: 3.7 / 4.0   August 2023 – May 2026
BS in Computer Science   Expected Graduation May 2026
DePauw University, August 2023 – May 2026   Major GPA: 4.0 / 4.0   August 2020 – May 2023
Bachelor of Arts - Computer Science and Mathematics   Degree Conferral Expected May 2026

Relevant Coursework: Intro to Computer Science, Data Structures, ObjectOrientedSoftwareDevelopment, Foundations of Computation, Research Deep Neural Networks, Mathematics of Machine Learning, Calculus III & II & I, Linear Algebra, Foundations of Advanced Mathematics, Differential Equations, Probability, Applied Mathematics, Graph Theory, Analysis, Math Senior Seminar, Principles of Physics I&II, Statics, Droplet Impact Studies, Inorganic Chemistry, Intro to Economics, Financial Accounting, Practical Quantitative Reasoning, Science Research Professional Development, Science Fellowship Application Workshop, WashU Women in Engineering.

Awards: DePauw's Fall & Spring 2022-23, 2021-22 and 2020-21 Dean's List, Tech Specialist of DePauw Robotics Club, Service Coordinator of Greencastle Middle School STEM Teaching Program and Rescued Treasures Donation Program, Volunteer of Microsoft Philanthropies TEALS Program, Vice President and Public Relations of DePauw China Connection, Lead International Student Ambassador, Outstanding service as Center for Diversity and Inclusion Intern during 2022-23, Selection to membership in the Indiana Alpha Chapter of Phi Beta Kappa, Digital Badge for CAS Student Central Independent Summer Program

WORK AND EXTRACURRICULAR EXPERIENCE

Spartan Light Metal Products Makerspace, St. Louis, MO   August 2024-Present
MakerTech
- Assist with 3D printing, laser cutting, and electronics while mentoring and training students.
- Collaborate with the Makerspace team to develop hands-on learning experiences and support the creation of student projects.
- Contribute to the growth of the maker community by helping students bring their ideas to life.

Office for International Student Engagement, St. Louis, MO   August 2024
FYI Leader
- Serve as a reliable resource by providing accurate information and connecting students with compass services and resources
- Guide and support new international students during their transition to new school by providing mentorship, campus tours and assistance with academic and social life.
- Enhance diversity and inclusion at WashU community by encouraging interaction and building relationships among students from diverse backgrounds.

Web Developer and Designer for Sustain-a-Plate Web Application   June 2024 – August 2024
- Developed a **full-stack web application** using **React** and **FastAPI** to manage customer returns, focusing on **user interface design** and ensuring the application was visually appealing and user-friendly.
- Integrated **PostgreSQL** for database management and ensured **responsive design** across various devices, adhering to modern web standards.
- Implemented real-time **data visualization** tools to improve user experience and streamline logistics management.

Full Stack Developer for SendBack   April 2024 – August 2024
- Built a comprehensive web application using **React** and **FastAPI** to streamline customer returns, integrating **AWS S3** for storage and **DynamoDB** for database management.
- Implemented **RESTful APIs** for data handling and integrated **AWS S3** for storage and **DynamoDB** for scalable database management.
- Deployed the application via **AWS Elastic Beanstalk**, ensuring seamless system performance and scalability.

Mobile App Developer for ShopNFind   May 2024 – June 2024
- Developed a **mobile app** using **React Native** to enhance in-store navigation, ensuring a seamless shopping experience across different screen sizes.
- Integrated **real-time inventory updates** and **personalized user profiles**, focusing on accessibility and performance.

Computer Science and Engineering at WashU, St. Louis, MO   Jan 2024 – Present
Teaching Assistant for CSE361: Intro to System Software
- Facilitate learning in Introduction to the hardware and software foundations of computer processing systems
- Assist students in developing skills for effective programming, particularly in addressing issues of performance, portability and robustness.
- Help students understand how computer systems execute programs and store information from programmers' perspective.

Skandalaris Center for Interdisciplinary and Entrepreneurship, St. Louis, MO   Sep 2023 – Present
Web Designer and Developer
- Lead the design and development of responsive websites for local startup businesses
- Create visually appealing and user-friendly interfaces that align with each client's unique brand identity
- Collaborate with clients and coworkers to discuss project objective and ensure successful project completion

- Improve existing websites, enhancing performance, user experience and overall functionality, including optimizing load times, navigation and ensuring compatibility with various browser and devices

Office for International Student Engagement, St. Louis, MO   Oct 2023 – Present
OISE Student Ambassador
- Spearhead the planning and execution of diverse social events: coordinate logistics, manage resources for participants
- Take a leading role in designing appealing and informative posters for International Education Week Kickoff
- Effectively communicate event details, updates and relevant information to the international student community

LINUXJOBBER, Greenbelt, MD   May 2022 - Aug 2022
Security and Quality Analyst
- Developed and deploy applications used for Linuxjobber websites, adjusted and beatified Linuxjobber website using Django by 30%
- Maintained most Tutorials and Work Experience tasks on Linuxjobber websites
- Performed quality analysis on company websites and built, tested, maintained all the labs on Linuxjobber websites

DPU CENTER OF DIVERSITY AND INCLUSION, Greencastle, IN   Aug 2022 - May 2022
Center for Diversity and Inclusion Intern
- Being a part of International Student Affairs to plan various activities and events
- Enhanced the visual presence of the CDI by designing engaging web pages and posters
- Arranged information for students of color, creating inclusive and supportive environment for underrepresented groups
- Assisted in the recruitment process of new international student ambassadors, including interview process and selection
- Offered tax sessions to help students navigate the complexities of filing tax returns
- Being selected as the most outstanding CDI intern in the academic year 2022-23

ACADEMIC RESOURCE CENTER, Greencastle, IN   Feb 2021 - May 2023
Quantitative Reasoning Tutor
- Guided more than 10 students to develop their quantitative reasoning skills
- Assisted students with homework, projects, and reports on STEM subjects
- Participated in peer tutoring classes to learn how to tutor other students

Speaking and Listening Tutor
- Helped individuals or a group of students (typically 3) with their presentations;
- Provided suggestions and feedback to improve speaking and listening skills;
- Joined a class to discuss and learn about the approaches to conducting a better presentation.

STEM Guide (Introduction to Computer Science)   May 2022 – Dec 2022
- Explained the concepts of selection, iteration, and recursion to selected groups of students;
- Led group discussions for solving programming challenge problems;
- Assisted professor in explanation by providing notes and other resources for 20 students in the class.

STEM Guide (Linear Algebra)   Jan 2022 - May 2022
- Demonstrated concepts of Linear Transformations, Coordinate Representations & General Vector Spaces;
- Conducted lectures on complex topics such as Inner Product Spaces to a class of 18 students;
- Assisted students in the class with homework problems and exam preparations and their grades improved by 20%.

DPU COMPUTER SCIENCE LAB, Greencastle, IN   Jan 2021 – May 2022
Lab Assistant
- Reviewed programs for students to find potential errors and help them improve their grades by 35%;
- Explained and assisted 19 students in the class in solving difficult aspects of coding projects;
- Lead the students to finish the projects assigned by the Professor, with the topics of Arrays, Algorithms, etc.

INTERNATIONAL STUDENT AFFAIRS (ISA), Greencastle, IN   Aug 2021 - May 2023
International Student Ambassador   Aug 2021 - May 2022
- Led a group of new international students to get familiar with the campus;
- Helped the students learn more about the US culture and have a great transition from high school to college;
- Assisted the student in getting on well with each other from different cultural backgrounds.

Lead International Student Ambassador   May 2022 - May 2023
- Hosted prospective international students during admission days.
- Led the international student ambassador program and instruct them during the orientation;
- Assisted ISA staff in planning and implementation of orientation activities.
- Educated new students about campus services and culture.
- Supported incoming students' transition throughout their first year at DePauw.

DEPAUW ROBOTICS CLUB, Greencastle, IN   Oct 2022 - May 2023
Tech Specialists
- Provided support for technological systems, programs, and networks.
- Overseeing the implementation, configuration, updating, and maintenance of IT systems and components.
- Used the Arduino technique to do projects to teach students who are interested in robotics the project.

DEPAUW CHINA CONNECTION CLUB (DCC), Greencastle, IN   Oct 2021 - Dec 2022
Vice President   March 2022 - Dec 2022
- Overseeing all the board members, providing leadership and guidance.
- Helped the organization do event planning and create budgets.
- Reviewing and evaluating the performance of the organization

Public Relations Representative   Oct 2021 - March 2022
- Promoted the organization to increase membership.
- Designed and developed posters and brochures for each event.

- Promoted events using social media (Instagram, Facebook, WeChat)

DEPAUW MARKETING CLUB, Greencastle, IN   Aug 2021 - Dec 2021
Member of Old Union BBQ Group
- Helped Old Union BBQ, a restaurant in Greencastle, make leaflets;
- Brainstormed the approaches to promote the restaurant and get more people to come to the restaurant;
- Worked with other 5 students to make plans and design posters for the restaurant.

RESEARCH EXPERIENCE

Computing Research Association, Urbana-Champaign, IL   May 2023 - Aug 2023
Web App Developer ("WhoFundedIt" Web Application Design and Development)
- Designed and developed a web app to generate funder information for a list of scientific publications;
- Wrote a design document for the app to give others a clear demonstration of the app development process;
- Implemented an optimal design using Shiny framework and Crossref API.
- Poster presented July 26, 2023 at the STEM Career Exploration and Symposium. University of Illinois at Urbana Champaign, Urbana-Champaign, Illinois. www.ideals.illinois.edu/items/127268

Computing Research Association, Minneapolis, MN   May 2022 - Aug 2022
Student Researcher (Cybersickness assessment in Virtual Reality)
- Conducted research on cybersickness assessment and mitigation in Virtual Reality;
- Applied Unreal Engine and Arduino to test the effectiveness of 3 tools, Slider, Knob, and Button;
- Used Unity to capture the images of every frame time during the simulation;
- Implemented 3D printing technology to make a chin rest to fix the head of the participants during the experiment and performed data analysis after conducting the experiment.

DEPAUW PHYSICS DEPARTMENT, Greencastle, IN   Jan 2022 - May 2023
Droplet Impact
- Analyzed the movement and size of the droplet after it is released;
- Used 3D Printing technique to make a Fluid Chamber generate droplets;
- Found out the relationship between the pulse width and the size of the droplet;
- Attended the Zone 8 Meeting at the University of Louisville to present the research to students in physics.

DEPAUW COMPUTER SCIENCE DEPARTMENT, Greencastle, IN   Jan 2023 – Feb 2023
Research Deep Neural Networks
- Utilized Python libraries such as Pandas and TensorFlow to process and train data, exploring machine learning and neural networks
- Applied techniques to real-world problems, including digit and speech recognition, leveraging machine learning algorithms
- Utilized LaTex to document findings and write academic papers on neural networks
- Focused research on face recognition techniques within Convolutional Neural Networks (CNNs), investigating bias and the nature of the technique's limitations

DEPAUW MATHEMATICS DEPARTMENT, Greencastle, IN   August 2022 - Dec 2022
Mathematics of Neural Networks
- Learned the concept of machine learning, deep learning, and neural networks;
- Dig into the mathematical part of neural networks and analyze the four basic equations of it;
- Wrote an academic paper about the process of getting the four equations and digit recognition;
- Made a poster of the study and will present it in the research session on campus.

CAS Student Central Independent Summer Program, Online   June 2023 - Sep 2023
Independent Study of Actuarial Science
- Learn a weekly module consisting of pre-recorded presentations, case studies, and applied exercises;
- Dig into the topics of pricing, reserving, data visualization, predictive modeling, and soft skills;
- Award a Digital Badge for the CAS Student Central Independent Summer Program.

COMMUNITY INVOLVEMENT

Microsoft Philanthropies TEALS Program, St. Louis, MO   April 2023 – Present
Volunteer and Teaching Assistant of AP CSA at University City High School
- Support the class twice a week by working with students on assignments;
- Provide resources to students about Computer Science and answer their questions;
- Assist the teacher or other volunteers as they deliver the lessons.

RESCUED TREASURES, Greencastle, IN   Aug 2022 - May 2023
Service Coordinator
- Coordinated the volunteers at DePauw and Rescued Treasures staff to do the service;
- Recruited volunteers for the program and schedule people to come;
- Made posters, group chats, and Instagram to promote the program;
- Communicated with the Rescued Treasures and volunteers weekly about their service and how to improve;
- Attended the bi-weekly coordinator meeting to discuss civic engagement and community service.

GREENCASTLE MIDDLE SCHOOL, Greencastle, IN   Aug 2021 - May 2022
Service Coordinator and Volunteer
- Coordinated the volunteers at DePauw and Greencastle Middle School staff to do the service;
- Recruited volunteers for the program and schedule people to come;
- Made posters, group chats, and Instagram to promote the program;
- Communicated with the GMS and volunteers every week about their service and how to improve;

- Attended the bi-weekly coordinator meeting to discuss civic engagement and community service.

TIGER PALS, Greencastle, IN   Aug 2020 - Aug 2021
Volunteer
- Wrote letters to a local elementary student every week;
- Shared interesting stories with the elementary student and get a response letter from her;
- Communicated with the service coordinator if there was something wrong with the kids.

Colors, Graphs & Network, Greencastle, IN   Jan 2022 - Feb 2022
Volunteer
- Learned graph theory every day and practice to teach the knowledge;
- Wrote teaching plans and handouts to prepare to teach;
- Taught 2 students in Greencastle High School 3 days a week about graph theory.
- Wrote some reflections about the teaching process and try to think of ways to improve.

Stone Scholar, Greencastle, IN   Aug 2020 - Aug 2021
Volunteer and Member
- Attended weekly meetings to discuss some important topics about civic engagement;
- Conducted community service every week and brought back some reflections on it;
- Participated in the supermarket sweeping activity to help with the issue of food insecurity.

SKILLS
Programming Languages: Python, C++, R, Java, C, C#, HTML, CSS, JavaScript, SQL, git
Operation/Database System: Windows, Linux, Oracle, Unity, Unreal Engine
Tools: Panda, Django, Tensorflow, Shiny

LANGUAGES: English, Chinese