

Enze Wang

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EDUCATION

PURDUE UNIVERSITY (GPA: 3.8/4.0)

2025/08 - 2026/05

M.S. in Computer Science (4+1 Program)

Core courses: Machine Learning, Data Communication & Computer Network, Data Mining, Artificial Intelligence

PURDUE UNIVERSITY (GPA: 3.96/4.0)

2021/08 - 2025/05

B.S. in Computer Science & Computer Graphics Technology (Double Major)

Core courses: Linear Algebra, Multivariate Calculus, Discrete Mathematics, Data Structures And Algorithms, Programming In C, Object-Oriented Programming, Computer Architecture, Systems Programming, Machine Intelligence

Honor: Phi Kappa Phi Honorary Scholar Society member

SKILLS

- **Programming:** Java, Python, C/C++, Go, SQL, JavaScript (TypeScript, React)
- **Framework:** Design Patterns (MVC, Factory Pattern, Singleton, Strategy), Spring Boot, LangChain
- **Developer Tools:** Linux, Unix, Git, AWS, Docker, MySQL, MongoDB, Redis

WORK EXPERIENCE

Software Engineer Intern | VortexNet | COVINA, CA

2025/05 - 2025/08

- Developed scalable backend services for an e-commerce platform using Java Spring Boot, enabling authentication, product catalog, and order management for over 11K users.
- Integrated MySQL and Redis for data persistence, caching, and asynchronous processing, reducing average API response time by 43%.
- Deployed microservices on AWS (EC2, S3, RDS) with CI/CD automation via Docker and GitHub Actions to streamline deployment cycles.
- Enhanced the platform with LangChain-powered AI recommendations, generating personalized product suggestions that increased user engagement by 26% in internal testing.

Software Engineer Intern | NextTier | Sacramento, CA

2024/05 - 2024/08

- Developed and deployed an AI-powered customer support chatbot using Python, exposing RESTful APIs that handled multi-turn conversations for 54K active users.
- Integrated LangChain and Hugging Face models with a retrieval-augmented generation (RAG) pipeline, achieving over 92% response accuracy for context-aware answers.
- Implemented Redis-based session management and containerized services with Docker, deploying the application on AWS for high scalability.
- Built a lightweight React + TypeScript frontend demo that improved user accessibility and engagement with the chatbot system.

Research Assistant | Purdue University, DUIRI Program | West Lafayette, IN

2024/01 - 2024/04

- Contributed to the "Side-Channel Attacks on Encrypted 5G/4G Voice Calls" research project under Purdue's DUIRI program.
- Implemented hybrid deep learning models (LSTM + CNN) to classify encrypted traffic patterns and infer call activity with 12% accuracy improvement.
- Collected, pre-processed, and analyzed large-scale cellular network datasets, summarizing experimental results and refining methods in weekly team discussions.

Algorithm Engineer Intern | Tsinghua Intelligent and Connected Vehicles | Beijing, China

2023/06 - 2023/08

- Refactored and tested 30+ perception module functions in C++, improving code maintainability, runtime reliability, and debugging efficiency.
- Designed function trees and visualized prediction pipeline workflows to streamline debugging and performance optimization.
- Integrated and validated perception, prediction, and planning modules, ensuring stable performance across the autonomous driving system.

Teaching Assistant | Purdue University | West Lafayette, IN

2023/01 - 2023/12

- Led weekly lab sessions and mentored approximately 100 students in Computer Science Fundamentals, (improving comprehension of core algorithms and data structures.)
- Assisted in grading assignments and exams for 3K+ submissions, ensuring fairness, accuracy, and grading consistency across course sections.