

EDUCATION

Purdue University

B.S. in Computer Science, GPA 4.00/4.00

West Lafayette, IN

Expected May. 2027

Relevant Coursework: Object-Oriented Programming, Data Structures, Algorithms, Artificial Intelligence, Competitive Programming, Data Science

EXPERIENCE

Data Mine - Elevance Health

Teacher Assistant (Product Manager)

Aug. 2025 – Present

West Lafayette, IN

- **Technologies:** Git, Python, PyTorch, Splunk, Jupyter Notebook, Pandas, Agile
- Led a 10-student team as Product Manager in a Purdue–Elevance Health cybersecurity project.
- Performed DNS analysis, protocol inspection, TLS monitoring, and time-series ML for threat detection.
- Analyzed **millions** of weekly log entries for anomaly detection in large-scale, highly imbalanced datasets.

Purdue M2 Lab

Research Assistant

Nov. 2024 – Present

West Lafayette, IN

- **Technologies:** Git, Python, PyTorch, UNIX, HPC
- Conducting research on forgery and deepfake detection with focus on **multimodality** and **localization**.
- Ranked **top 3** globally in the 2025 **1M-Deepfakes Challenge** with 51% localization accuracy.
- Leveraged TACC HPC to train on 1M+ videos and design methods for **98%-vs-2%** imbalanced data.

Data Mine - Corteva Agriscience

Aug. 2024 – May. 2025

West Lafayette, IN

Undergraduate Data Science Researcher

- **Technologies:** MinerU, PaddleOCR, LLMs, python, Git, Agile, SQL, RAG
- Developed a multimodal **LLM–CV data pipeline** and chatbot to support **Corteva** scientists in R&D.
- Built **table extraction** and **layout detection** models with **90%** digital and **80%** scanned PDF accuracy.
- Collaborated across teams while strengthening **software engineering** and professional communication skills.

Chuyen Long An Online Judge

Sep. 2022 – Present

Admin, Developer, and Problem Specialist

Long An Province, Vietnam

- **Technologies:** C++, Git, Docker, Competitive Programming, Python, CSS, Java Script
- Led development and UI design for CLAOJ, a competitive programming platform for students.
- Created **40+** **original problems** for nationwide contests with over **200 participants**.
- Mentored top students preparing for the **Vietnamese Olympiad in Informatics (VOI)**.

PROJECTS

BSK All-In-One Clinic Management App | Java Netty, Java Swing, SQL, Jasper Report

Dec. 2024 – Present

- Developed a full-featured client-server system supporting over **2,000 weekly patients**.
- Integrated a medical-grade **\$50,000 ultrasound machine** for real-time streaming and data parsing.
- Enabled secure real-time image sync, allowing patients to view ultrasound results online.
- Optimized system workflow, reducing patient wait time by **30%** and increasing daily throughput by **40%**.

TDNEST E-Commerce Website | Node.js, Express, Firebase, Google APIs

Apr. 2024 – Present

- Built a full-stack e-commerce platform from scratch for a local business.
- Enhanced performance using node-cache and improved security with **JWT authentication and rate-limiting**.
- Integrated Google APIs for automated order scheduling and email notifications.

TECHNICAL SKILLS

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

Frameworks: Vue.js, Java Netty, LangChain, Node.js, Express.js, Agile

Developer Tools: Git, Docker, VS Code, IntelliJ, PyCharm, Jupyter, Anaconda, AWS, Firebase, MongoDB, Splunk

HONORS & AWARDS

ICPC North America East Central Regional | Top 25

Vietnamese Olympiad in Informatics | Honorable Mention Award