

Oliver Shen

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EDUCATION

The Ohio State University, College of Art and Science

Columbus, OH

Bachelor of Science in Computer Information Science

Graduation: April 2026

- Specialization: Artificial Intelligence (AIT)
 - Core courses: Java, Python, Ruby, Data Analysis, Artificial Intelligence, Computer Networking
- GPA: 3.4

WORK EXPERIENCE

Lucky Cookie LLC

Columbus, Ohio

Owner

March 2025 – Present

- Manage TikTok pet store operations, including sourcing, inventory, and order fulfillment
- Use Python and Pandas to scrape competitor pricing and stock, guiding selection and pricing strategies
- Developed an automated sales dashboard with Python and Matplotlib to track sales KPIs and trends
- Plan and execute TikTok marketing campaigns, achieving a 12% conversion rate
- Analyze sales data to optimize product mix and pricing, driving 20% month-over-month revenue growth

Chinese Academy of Sciences, Institute of Automation

Beijing, China

AI Research Intern

June 2024 – August 2024

- Developed and optimized AI visual perception modules, improving accuracy and response time.
- Proposed and implemented fault prediction algorithms, achieving over 90% diagnostic accuracy.
- Built and optimized CNN and LSTM models, outperforming traditional methods.
- Applied Transformer model for time-series prediction, achieving >90% accuracy on multiple datasets.
- Assisted in data preprocessing and analysis for AI research projects, supporting team findings.

ACADEMIC PROJECTS

Operational Assessment of Adversarial Vulnerabilities in AI-Enabled DoD Systems

Columbus, Ohio

CIS Reserch Project

January 2025 – April 2025

- Built adversarial pipeline in Python/PyTorch/OpenCV to apply noise and rotation distortions.
- Performed 500+ FGSM attacks (ϵ 0.02) on ResNet-18 to benchmark model robustness.
- Automated end-to-end workflow delivering batch inference under 1 min with structured CSV logging.
- Noise cut Top-1 accuracy 15% and combined attacks caused 85% errors; proposed defenses.

RateMyPeers Feedback Platform

Columbus, Ohio

Web App Design & Front-End Project

March 2025 – May 2025

- Developed a peer-evaluation platform enabling students to rate teammates and maintain performance scores.
- Implemented CRUD to manage classes, groups, assignments and evaluations for instructors and students.
- Designed database schema and Rails controllers to support real-time feedback aggregation and reporting.

RoboX Club

State College, Pennsylvania

Computer Vision Department Member

September 2021 – April 2023

- Designed and optimized vision algorithms, enhancing real-time robot accuracy and efficiency.
- Integrated computer vision systems into autonomous robotic solutions for competitive events.
- Developed neural networks with OpenCV for dynamic object recognition.

HONORS & SKILLS

- Data Analysis: Proficient in using SQLite, MongoDB, and Jupyter for data analysis.
- Programming Languages: Skilled in Python, Java, and C with experience in machine learning and robotics.
- Artificial Intelligence: Designed and deployed models like CNN, LSTM, and Transformers.
- Computer Vision: Optimized vision algorithms with OpenCV for object detection.
- Robotics: Integrated perception modules into robots, improving autonomy and performance.
- Leadership and Teamwork: Led cross-functional teams and excelled in collaboration.

CERTIFICATIONS

- Google Data Analytics Certificate
- Microsoft Power BI Data Analyst Professional Certificate