

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: December 2025

- Specialization: Artificial Intelligence (AIT)
 - Core courses: Java, Python, Ruby, Data Analysis, Artificial Intelligence, Computer Networking
- GPA: 3.3

WORK EXPERIENCE

Resilience Inc.

Tampa, Florida

AI/Frontend Engineer Intern – remote

June 2025 – Present

- a lightweight AI-powered recommendation module, enhancing personalization and user engagement.
- Designed and developed responsive React Native UI components with consistent styling and navigation.
- Implemented state management and reusable layouts to streamline multi-screen workflows.
- Optimized app performance by reducing image load time and improving UI rendering efficiency.
- Collaborated with backend developers to connect APIs and ensure seamless data flow across screens.

Lucky Cookie LLC

Columbus, Ohio

Owner – Entrepreneurship

March 2025 – Present

- Manage TikTok pet store operations, including sourcing, inventory, and order fulfillment.
- Use Python and Pandas to scrape competitor pricing and stock data, informing 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

Personal Website

Columbus, Ohio

Portfolio site – <https://olivershen20011217.github.io>

August 2025

- Built this site to own my portfolio, control design, and learn production web tooling.
- Middleman stack with ERB templates, shared CSS, and YAML data for DRY content.
- Open-sourced on GitHub and published via GitHub Pages for a fast, public site.
- Resolved sticky/width glitches with CSS Grid minmax(0,1fr/3fr) and a CSS-only sidebar toggle.
- Unified card UI, resume PDF download, accessible headings/links; updates are one-line YAML edits.

Operational Assessment of Adversarial Vulnerabilities in AI-Enabled DoD Systems

Columbus, Ohio

CIS Research Project

January 2025 – April 2025

- Built an 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.

HONORS & SKILLS

- Data Analysis: Proficient in using SQLite, MongoDB, and Jupyter for data analysis.
- Programming Languages: Skilled in Python, Java, C, ERB, HTML/CSS, and JavaScript in projects.
- 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.