Oliver Shen

LinkedIn: olivershen1217 | shenzheyu1217@gmail.com | (330) 619-2028 | https://olivershen20011217.github.io

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*
- Integrated 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.