

CHRISTOPHER ZIMBIZI

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EDUCATION

Lake Forest College, Lake Forest, IL
Bachelor of Arts in Computer Science; Minor in Mathematics

Expected May 2027
GPA: 3.92/4.00

Advanced Coursework:

- Data Structures & Algorithms, Database Systems, Operating Systems, Computer Vision & Machine Learning
- Linear Algebra, Multivariable Calculus, Discrete Math

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, HTML/CSS, SQL, PHP, Bash, Perl

Data Science & Analysis: Data visualization, Data analysis, Data preprocessing, Statistical modeling, Feature engineering

Libraries/Frameworks: TensorFlow, OpenCV, Pandas, NumPy, Matplotlib, Scikit-learn

Tools & Technologies: Git, VS Code, Jupyter Notebook, Linux/Unix, REST APIs, CLI

RELEVANT PROJECTS

Facial Emotion Recognition | [Link](#) | Python, TensorFlow March 2025

- Developed a deep learning model for facial emotion recognition using the FER2013 dataset.
- Designed and trained a Convolutional Neural Network (CNN) with data augmentation techniques to enhance generalization.
- Implemented batch normalization, spatial dropout, and adaptive learning rate optimization to improve model performance.
- Achieved 65% test accuracy, with 86% accuracy in classifying “Happy” expressions.

AI-Powered Research Paper Assistant | [Link](#) | Python, Streamlit, OpenAI API July 2024

- Architected and deployed full-stack web application capable of processing multiple research papers, reducing analysis time by 75%.
- Utilized environment management for API key storage, enhancing application security and deployment flexibility.
- Designed modular codebase, enabling rapid feature iteration and deployment.
- Successfully navigated evolving beta API documentation, demonstrating adaptability and problem-solving skills.

Real-Time Posture Detection System | [Link](#) | Python, OpenCV, Mediapipe August 2024

- Engineered computer vision system achieving 95% accuracy across 10+ hours of testing scenarios.
- Optimized processing pipeline to deliver alerts within 200ms while maintaining 15 FPS on standard hardware.
- Reduced system resource usage by 30% through performance profiling and algorithm optimization.
- Implemented configurable feedback system resulting in 90% improvement in user correction response.

LEADERSHIP & EXTRACURRICULAR

Chess Club Founder & President | Lake Forest College August 2024 – Present

- Established and currently lead the Lake Forest College Chess Club, fostering strategic thinking and problem-solving skills among peers.

ColorStack Member October 2024 – Present

- Engaged in ColorStack, a nonprofit organization dedicated to increasing Black and Latinx representation in tech, with a community of 11,000+ CS students across 900+ schools, accessing academic support, career development resources, and networking opportunities with industry professionals.

PERSONAL INTERESTS

- Chess
- Field Hockey
- Digital Color Grading