

CHRISTOPHER ZIMBIZI

CURRICULUM VITAE

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Lake Forest College

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EDUCATION

Lake Forest College, Lake Forest, IL
Bachelor of Arts, Computer Science and Mathematics

August 2023 - May 2027
GPA: 3.95/4.00

Honors: Dean's List, Presidential Scholarship, Cornerstone Scholarship

Relevant Coursework: Algorithm Analysis, Data Structures, Database Systems, Operating Systems, Mathematical Probability & Statistics, Computer Vision & Machine Learning, Abstract Algebra, Multivariable Calculus, Tensors & Tensor Geometry.

TEACHING EXPERIENCE

Teaching Assistant | Lake Forest College

- CSCI 107: Introduction to Web Development
- CSCI 107: Introduction to Web Development

Spring 2024
Fall 2023

PRESENTATIONS

- **MindScribe: Authoring Cognitive Wellness Through a Declarative, On-Device iOS Architecture**, Robert B. Glassman Memorial Brain, Mind, and Behavior Symposium. Towson Lake Forest College, Lake Forest, IL, October 2025.

TECHNICAL PROJECTS

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

March 2025

- Built and trained a Convolutional Neural Network (CNN) for multi-class emotion classification using the FER2013 dataset.
- Improved model generalization via data augmentation, batch normalization, and optimization techniques, achieving 65% test accuracy.

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.

PROFESSIONAL EXPERIENCE

iOS Development Intern | Brain Health Therapies, LLC

May 2025 – Present

- Architected and developed a comprehensive iOS brain health tracking application from concept to implementation using SwiftUI.
- Engineered a modular, data-driven user interface with the MVVM (Model-View-ViewModel) architectural pattern, creating a suite of reusable components to support comprehensive self-management across multiple health pillars.
- Implemented a robust, offline-first data persistence layer using SwiftData, enabling users to reliably track, manage, and visualize their health history entirely on-device.

LEADERSHIP & SERVICE

Vice President | ColorStack Chapter, Lake Forest College

October 2025 – Present

- Oversee committee leadership and ensure chapter compliance with ColorStack Nationals standards.
- Manage technical operations and communications as primary contact for external stakeholders and national leadership.
- Advocate for members with faculty and administration; hold weekly office hours for direct member support.

Resident Assistant | Lake Forest College

August 2025 – Present

- Manage a residential community of 30+ students, focusing on conflict resolution and inclusive programming.

Founder & President | Chess Club, 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.

TECHNICAL SKILLS

Languages: Swift, Python, Java, JavaScript, TypeScript, SQL, PHP, Bash, Perl, LaTeX

Mobile/Web Development: SwiftUI, SwiftData, HTML/CSS, React, Next.js, REST APIs

Data Science & ML: PyTorch, TensorFlow, OpenCV, Pandas, NumPy, Matplotlib, Scikit-learn

DevOps/Tools: Git, GitHub Actions, CI/CD, Jupyter Notebook, Linux/Unix, CLI