Marko Ljuboja

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EDUCATION

DePaul University, Jarvis School of Computing & Digital Media, Chicago, IL Graduating November 2025

BS in Computer Science, Software Development Concentration, Spanish Minor, GPA 3.71

Relevant Coursework: Data Structures I & II, Design & Analysis of Algorithms, Systems I & II, Global Software Development

SKILLS + STRENGTHS

Technical

- Operating Systems & Productivity: Windows, macOS, Unix/Linux, Microsoft Office 365 Suite
- Programming Languages: Java, Python, C, C++, SQL, JavaScript, R
- Web & Mobile: HTML, CSS, React.js, Node.js, REST APIs, Swift (UIKit and SwiftUI)
- Tools & Technologies: SQLite, Git, Docker, PuTTY, JUnit 5, Gradle, Maven, Vercel, Google Cloud

Soft Skills

• Strong leadership, effective communication, team collaboration, results-driven, self-disciplined, fast learner

Languages

• English (native), Serbian (native), Spanish (working proficiency)

PROJECTS

Serbian-English Dictionary iOS App – App Store Link: https://apps.apple.com/us/app/serbdictionary/id6753670428

- Developed a full-stack Serbian-English dictionary iOS app using SwiftUI, featuring bidirectional translation, dual script support (Cyrillic/Latin), and advanced search functionality with SQLite database integration.
- Engineered custom UI components, implemented iOS widget support, and alphabetical navigation.

Northern Trust Hackathon Project - 3rd Place of 15

- Designed a comprehensive foreign exchange trading platform using React that integrates real-time currency conversion, trading simulation, and predictive analytics.
- Built an interactive interface with portfolio tracking, trade history, and real-time exchange rate data via API integration.
- Implemented an LSTM (Long Short-Term Memory) machine learning model to predict currency exchange rate trends and identify optimal trading opportunities. Data is visualized with Chart.js.

Stem Player iOS Application

- Created an iOS app that takes YouTube links from users, processes the audio into 4 separate tracks ("stems"), and enables users to manipulate the separated tracks.
- Engineered synchronized multi-track playback using AVAudioPlayer for precise control of each isolated track.
- Constructed a background processing system with Flask microservice for audio stem separation using Demucs neural network, processing songs in ~1.5x song length.

EXPERIENCE

Self Employed, Chicago, IL

January 2025 - Present

iOS Developer

- Developed and launched iOS applications using Swift, SwiftUI, and UIKit with SQLite database integration.
- Built full-stack solutions integrating Python/Flask backend services for audio processing and real-time data handling.
- Managed complete development cycle from design through App Store launch and distribution.

Chicago River Canoe and Kayak, Willow Springs, IL

Boat Rental Associate

May 2024 - July 2025

- Managed daily transactions, securely handling up to \$2,000 per shift.
- Assisted with boarding, provided safety guidance, and performed water rescues as needed

ACTIVITIES

DePaul Serbian Cultural Club

January 2024 - Present

President

Lead the planning and execution of cultural events, managing budgets and fundraising efforts to support community.

DePaul Orthodox Christian Fellowship

October 2022 - Present

Member

• Participate in community service projects, fostering group engagement and contributing to local charitable initiatives.

DePaul Computer Science Society

October 2022 – Present

Member

Compete in software development hackathons and network with industry professionals at guest speaker events.