

# 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

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## SKILLS + STRENGTHS

### Technical

- **Programming Languages:** Java, Python, C, C++, SQL, R
- **Web & Mobile Development:** HTML, CSS, JavaScript (React.js, Node.js), REST APIs, Swift (iOS)
- **Development Tools:** Git, Docker, Unix/Linux command-line, 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)
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## PROJECTS

### 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.

### 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.

### Fantasy Draft Algorithm

- Scraped thousands of NBA player statistics and analyzed data using pandas and NumPy for score calculations.
  - Implemented a dynamic scoring engine incorporating performance metrics, injury risk, age, and positional scarcity.
  - Launched automated data analysis pipeline to optimize draft strategies with dynamic player rankings.
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## PROFESSIONAL EXPERIENCE

### Chicago River Canoe and Kayak, Willow Springs, IL

May 2024 – October 2024

#### Boat Launch Assistant

- Welcomed over 50 customers daily, ensuring timely processing of waivers and enhancing customer satisfaction.
- Assisted with boarding, provided safety guidance, and performed water rescues as needed.
- Managed daily transactions, securely handling up to \$2,000 per shift.

### Café Salsa, La Grange, IL

January 2023 – January 2024

#### Busboy

- Engaged with hundreds of customers daily to fulfill their needs.
  - Maintained food safety and quality standards.
  - Followed instructions in a demanding and fast-paced environment.
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## ACTIVITIES

### DePaul Serbian Cultural Club

January 2024 - Present

#### President

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

### DePaul Orthodox Christian Fellowship

October 2022 – Present

#### Member

- Participated in community service projects, fostering group engagement and contributing to local charitable initiatives.

### DePaul Computer Science Society

October 2022 – Present

#### Member

- Competed in software development hackathons and networked with industry professionals at guest speaker events.