

Marcell Borhi

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Education

Indiana University - Bloomington, IN

GPA: 3.91/4.0

Bachelor of Science in Computer Science

May 2025

- **Honors:** Hutton Honors College, Founder's Scholar, Dean's List, Direct Admit to Luddy
- **Global Engagement Scholarship:** Awarded maximum scholarship amount of \$44,000 for highest academic quality and performance
- **Courses:** Data Structures, Software Systems, Advanced Functional Programming, Artificial Intelligence
- **Activities:** Computer Science Club, BlockChain@IU

Experience

Research Assistant

January, 2023 – Present

Indiana University

Bloomington, Indiana

- Work with Dr. Yijie Wang at Indiana University to develop Deep Learning solutions for identifying cancer-specific synergistic drug combinations
- Analyze and evaluate Visible Neural Networks by simulating new data samples

Undergraduate Teaching Assistant

January 2023 – Present

Indiana University

Bloomington, Indiana

- Teach discrete mathematics for computer science to students
- Organize and lead discussion sections along with office hours
- Work with the professor for the course, Dr. Erik Wennstrom, and fellow instructors to design course material

Projects

Short-term IPO Price Predictor | [GitHub](#)

November 2022 – December 2022

- Developed a random forest ML model to predict IPO under-pricing with 76% accuracy
- Trained and optimized random forest models, SVM, ANN, gradient boosting classifier
- Used Numpy and Pandas to collect and clean data
- Worked in a team of four to efficiently and effectively achieve results

Spotify Quick Discover App | [GitHub](#)

June 2022 – August 2022

- Developed a full stack web application, utilizing a micro-service architecture
- Allows users to quickly discover new music from Spotify by previewing music clips from genres and categories, and saving desired songs
- Used test driven development to design a scalable back-end leveraging four micro-services, including an API gateway
- Built a frontend user interface using Next.js
- Containerized the application using Docker, making it available to be deployed using Kubernetes for container orchestration

Beginning Student Tables | [GitHub](#)

December 2021 – May 2022

- Further developed an interactive tool to help students systemically design programs in the Beginning Student Language
- Refactored codebase to TypeScript and used with React.js to develop UI components
- Built parts of a Beginning Student Language interpreter and parser using JavaScript to allow students to quickly import Beginning Student Language code
- Used Jest to unit test and component test the application

Community & Leadership

Volunteer Tennis Instructor

May 2021 – August 2022

Bloomington High School South / MC Tennis LLC

Bloomington, Indiana

- Volunteered as an assistant tennis coach for the Bloomington South High School boy's tennis team
- Instructed over 100 children in youth tennis clinics for community summer tennis program

Technical Skills

Languages: Java, Python, TypeScript/JavaScript, Racket, Haskell

Frameworks: Next.js, React.js

Developer Tools: Git, Docker *Familiar:* Kubernetes

Interests & Languages

Tennis | Bodybuilding | Nutrition | Fragrance | Hungarian