

Marcell Borhi

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EDUCATION & HONORS

Indiana University, Luddy School of Informatics – Bloomington, IN

May 2025 Bachelor of Science in Computer Science

Major GPA: 4.00/4.00

Major: Computer Science

Cumulative GPA: 3.91/4.00

- **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:** Artificial Intelligence, Data Structures, Software Systems, Discrete Structures
- **Activities:** Computer Science Club, BlockChain@IU

Technical Skills

Languages – Java, JavaScript/TypeScript, Python, Racket, Haskell, HTML/CSS

Frameworks/Technologies – Scikit-learn, Next.js, React.js, Docker, Git

Projects

Short-term IPO Performance Predictor – [GitHub](#)

November 2022 – December 2022

Course Project

- Developed a random forest machine learning model to predict IPO underpricing with **76% accuracy**
- Trained and optimized **random forest models, SVM, NN, 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](#)

May 2022 – August 2022

Independent Project

- 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

CSCI-Y390 Independent Software Development

- 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

Volunteer Work

Bloomington High School South / Matt Corry LLC. – Bloomington, IN

August 2021 – Present

Tennis Instructor

- 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

Interests & Languages

Tennis | Bodybuilding | Nutrition | Hiking | *Tamago* | Hungarian