Marcell Borhi

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Education

Indiana University, Luddy School of Informatics Aug 2021 - Present
GPA: 3.89/4.0

Bachelor of Computer Science
- **Honors:** Hutton Honors College, Founder's Scholar, Dean's List, Direct Admit to Luddy
- **Courses:** Data Structures, Software Systems, Discrete Structures
- **Activities:** Computer Science Club, BlockChain@IU

Skills

Languages: Java, JavaScript/TypeScript, Python, HTML/CSS
Technologies: Next.js, React.js, MongoDB, Docker, Kubernetes, Postman, Git

Projects

Spotify Quick Discover App   [GitHub](#)
Independent Project   June 2022 – Aug 2022
- Developed a **full stack** web application with **Next.js** and **TypeScript** allowing users to quickly discover music from Spotify by previewing music clips from genres and categories.
- Designed a scalable **MicroService** architecture, utilizing the Spotify Web **API.**

Personal Site   [GitHub](#)
Independent Project   July 2022 – Aug 2022
- Built a personal website using **Next.js** and **TypeScript**
- Developed interactive and dynamic pages with an accessible interface
- Developed a backend feature to easily and quickly add more content any page
- Tested using **Jest** and **Storybook**

Ray Tracer   [GitHub](#)
Independent Project   July 2022- Aug 2022
- Used **Java** to develop a ray tracer using **Object Oriented Programming** concepts
- Followed a **Test Driven Development** process, leveraging **JUnit**
- Used linear algebra to make accurate calculations for ray tracing

Beginning Student Tables   [GitHub](#)
CSCI-Y390 Independent Software Development   Dec 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 **compiler** and **parser** using **JavaScript** to allow students to quickly import Beginning Student Language code
- Used **Jest** to unit test and component test the application