

# Matéi Cloteaux

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## Education

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**Indiana University**, Bloomington, IN

May 2026

*Master of Science in Computer Science*

GPA: 4.0/4.0

Courses: Intro to Verification, Digital Design with FPGAs, Music Information Processing

**Indiana University**, Bloomington, IN

May 2025

*Bachelor of Science in Computer Science*

GPA: 4.0/4.0

Minors: Mathematics, Informatics

Courses: Data Structures & Algorithms, Intro to Algorithm Design & Analysis, Intro to Operating Systems, Compilers

## Experience

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**Managing Editor of Digital**

December 2023 – Present

*Indiana Daily Student*

*Bloomington, IN*

- Collaborate with a dynamic team of over 50 staffers and lead a dedicated team of front-end web developers at the IDS to publish digital storytelling initiatives.
- Spearhead multimedia projects, graphics coordination, and data-strategies to ensure impactful narratives.
- Engage with the development team to foster innovation and elevate the IDS digital presence.

**TechStart Intern - Cloud Engineering**

May 2025 – August 2025

*Liberty Mutual*

*Indianapolis, IN*

- Designed and implemented a React front-end integrated with an AWS Lambda API, enabling employees to collect, filter, and retrieve PDF reports through a scalable serverless architecture.
- Collaborated with cross-functional teams to deploy cloud-native applications using AWS services, ensuring reliability, maintainability, and alignment with organizational security standards.
- Lead efforts to modernize CI/CD infrastructure by migrating deployment pipelines from Bamboo to GitHub Actions for AWS Lambda repositories in order to create a unified, efficient, and secure software delivery process across the organization.
- Developed and tested automated workflows, enhancing build and deployment speed by up to 40%.

**TechStart Intern - Data Applications**

May 2024 – August 2024

*Liberty Mutual*

*Portsmouth, NH*

- Researched and compared capabilities of Snowflake Native Apps against customer-defined requirements, presented findings to the team and integrated team feedback into the development process.
- Leveraged Snowflake Native Apps and Streamlit to develop a fully functional proof-of-concept full-stack application enabling users to easily interact with data within Snowflake via a user-friendly and accessible UI.
- Partnered with cross-functional teams to deploy the proof-of-concept application to CloudForge utilizing Bamboo, enhancing application accessibility for all employees within Liberty Mutual.
- Operated effectively within an Agile framework, contributing to biweekly sprints and participating in Scrum ceremonies to ensure continuous team alignment and efficient project delivery.

## Projects

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**Deduce** | *Python, JavaScript, HTML, CSS*

September 2024 – Present

- Develop and maintain the Deduce website, automating content generation to reduce manual effort by 60% and increase user engagement through interactive tutorials and live coding features. Integrate Deduce with VS Code and Emacs, improving the developer experience for users with enhanced editor support.
- Collaborate with a team of 4 developers to implement new functionality to expanded Deduce's use in educational settings, benefiting 200+ students.

**Mega Puzzle** | *HTML, CSS, JavaScript, Bootstrap, Cloudflare*

August 2023 – April 2024

- Partnered with a team of 6 developers to design and create an engaging web-based puzzle competition platform offering a diverse array of puzzles, including crosswords, Sudoku, and unique challenges like deciphering unknown languages and uncovering hidden messages in music.
- Integrated back-end functionalities powered by cloudflare to allow users to submit answers and track user progress.
- Achieved a user base of 50 active participants through strategic updates and community engagement.

## Technical Skills

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**Languages:** Python, Racket, C, C++, Java, JavaScript, TypeScript, Haskell, R, PHP

**Web Design:** HTML, CSS, Bootstrap, Node.js, React, WordPress, Angular

**Databases:** Snowflake, SQL, PostgreSQL, MongoDB

**Operating Systems:** Microsoft Windows, Linux, Unix, MacOS

**Proof Assistants:** Coq, Agda, Deduce