

# John Flanagan

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## EDUCATION

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**University of Notre Dame** ▪ Notre Dame, IN  
Bachelor of Science in Computer Science, Mathematics

Expected May 2025  
GPA: 3.77/4.00

**Notre Dame London Global Gateway** ▪ London, UK

Jun 2022 - Aug 2022

- Participated in a six-week engineering study abroad program through Notre Dame's London Global Gateway.

## TECHNICAL SKILLS

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- **Languages:** Python, C, C++, HTML, CSS, Java, JavaScript, TypeScript, R, Bash, MATLAB, Mathematica, Verilog, SQL
- **Web & Frameworks:** React, Angular, Node.js, Express, Django, Spring Boot, Flask, Next.js, GraphQL, Postman
- **DevOps, Cloud & Tools:** AWS, GCP, Azure, Docker, Kubernetes, Git, Jenkins, PCF, Firebase, Heroku, Linux, LaTeX

## EXPERIENCE

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**Software Engineering Intern** ▪ Remote  
Ford Motor Company

May 2023 - August 2023

- Full-stack Software Intern contributing to development of the Dealer Information System (DIS) online application.
- Constructed responsive, user-friendly interfaces with Angular. Built and configured robust APIs using Spring Boot. Optimized CI/CD pipelines with Jenkins. Employed Agile and test-driven methodologies for efficient development.

**Teaching Assistant** ▪ Notre Dame, IN

August 2023 - Present

- Offered weekly office hours and graded student assignments for Notre Dame's Theory of Computing course.

**Undergraduate Research** ▪ Notre Dame, IN

August 2023 - Present

- Conducted AI research with Miang Jiang, utilizing large language models to drive cybersecurity advancements.

## COMPETITIONS

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**Hack For Good** ▪ Notre Dame, IN

April 2023

- Captured first place in Hackathon competition with an innovative online application aiding Ukrainian refugees.
- Used React frontend, Next.js backend, and AI for real-time location-based access to resources, including live translation.

**DataFest** ▪ Notre Dame, IN

March 2023

- Earned top honors in the "Best Visualization" category by analyzing American Bar Association data on free legal services.
- Leveraged Python and R, implementing statistical methods and natural language processing (NLP) to create compelling visuals that highlighted trends and patterns.

## PROJECTS

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**AI Blog Generation Website** | [Github](#)

June 2023 - July 2023

- Developed an AI-powered blog generation website using React, Tailwind CSS, Next.js, and MongoDB.
- Enabled secure content creation from YouTube videos, uploaded media, or curated prompts with user authentication.

**Group Spotify Application** | [Github](#)

May 2023

- Created a mobile-first collaborative music listening platform with React and Django.
- Implemented live group Spotify listening sessions, granting the host administrative control over music selection.

**Web Scraping Class Search Tool** | [Github](#)

April 2023

- Built a Python and Selenium web scraping tool for extracting course data from Notre Dame's Class Search website.
- Provided students the ability to track specific classes and receive email notifications for status updates.