

# Noah Trejo

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## EDUCATION

### Indiana University

*Bachelor of Science in Computer Science, Minor in Mathematics*

New Albany, IN

May 2026

### Ivy Tech Community College

*Statewide Transfer General Education Core*

Sellersburg, IN

May 2020

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, JavaScript, HTML/CSS, R, MATLAB

**Frameworks:** React, Node.js, Material-UI, Bootstrap

**Developer Tools:** Git, VS Code, Visual Studio, PyCharm, IntelliJ, Netlify

**Libraries:** NumPy, Matplotlib, PyTorch, TensorFlow, FFmpeg

**Relevant Coursework:** Data Structures and Algorithms, Discrete Mathematics, Computer Architecture, Data Forensics, Computational Physics

## PROJECTS

### Computational Physics Models | *MATLAB, R*

Aug. 2022 – Dec. 2022

- Developed a MATLAB-based computational physics model to simulate Fourier Transforms, Differentials, Integration, etc., optimizing algorithm efficiency and enhancing accuracy, resulting in exact Fourier Transform values, rather than approximations using delta functions.

### Simple Computer | *F*

Oct. 2023

- Designed and implemented a simple computational model in F programming language, streamlining data processing tasks and achieving a strongly typed, highly readable computing calculator.

### Facebook Login Page | *NodeJS, CSS, HTML, SSL*

Aug. 2023 – Dec. 2023

- Web Application that redirects the user to a Facebook authorized login page and requests user permission to use data
- Developed a Facebook login page feature that utilizes graph algorithm analysis to efficiently sort and recommend videos, enhancing user engagement by using Kruskal's algorithm to determine the path of videos to display.

### Audio Player Local Application | *Python, NodeJS, MongoDB*

Aug. 2024 – Oct. 2024

- Engineered an audio application that downloads audio files from YouTube and stores them in a Mongoose database, optimizing data retrieval and management to enhance user experience, resulting in a seamless audio access and playback experience.

### Python Developer Game | *Python(pygame), Flask*

Oct. 2024

- Developed a Python-based game that simulates Flappy Bird, incorporating real-time physics and collision detection, resulting in an engaging user experience and honing skills in game design and development.

## EXPERIENCE

### Administrative Assistant

June 2020 – Present

*UPS Worldport*

*Louisville, KY*

- Managed the processing of dangerous goods for aircraft packages at UPS Worldport, ensuring compliance with safety regulations and documentation requirements, which contributed to a 100 percent compliance rate during audits and enhanced overall operational efficiency.
- Ensure that packages and ULD containers reach their specified flight locations, to improve the efficiency of UPS Worldport package handling.

### Remote Tutor

August 2022 – Present

*IUPUI*

*Indianapolis, IN*

- Delivered personalized online tutoring in Spanish, helping students improve language proficiency and confidence in speaking and writing.
- Assisted students in Math through tailored lesson plans and problem-solving strategies.
- Supported learners in Physics by clarifying complex concepts and enhancing critical thinking skills, leading to improved performance in coursework and exams.