# Ty Stratton

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## Software Engineer

Computer science student with experience troubleshooting network issues at Amazon. Pursuing an Associate degree in Computer Science at Ivy Tech Community College, graduating Fall 2025. I built and maintain Wesley's Project, a full-stack initiative using Python, SQL, ETL pipelines, and web development to create interactive map visualizations that highlight the creative economy at the local level. Hosted online with managed databases, the project makes data clear and actionable—helping artists, advocates, and policymakers move forward together, grounded in the same insights.

## Relevant Skills

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| **Languages:** | Python, Java, C++, HTML, CSS, JavaScript, PostgreSQL |
| **Frameworks:** | React, Flask, Tkinter, PyQt, Pygame |
| **Tools:** | Excel, VMware, Adobe Creative Suite, Git, VS Code |
| **Libraries:** | TensorFlow, Keras, Tkinter, Pandas, NumPy, Matplotlib, Requests |
| **Certification:** | freeCodeCamp's Scientific Computing with Python |

## Education

**Associate of Science, Computer Science**                    Anticipated Graduation December 2025
Ivy Tech Community College, Indianapolis, IN

**Bachelor of Science, Apparel Design**                    May 2020
Ball State University, Muncie, IN

## Qualifications

- Built and maintain Wesley's Project, a full-stack web application that visualizes the creative economy at a local level
    - Uses Python, JavaScript, Node.js, HTML/CSS, and PostgreSQL for data cleaning, querying, and creating ETL pipelines to display public economic data
    - Includes Google OAuth2 authentication and a REST API to power interactive map visualizations and provide custom reports to users
- Built a web scraper in Python to monitor and track Nike shoe prices historically
    - Developed and deployed a React-based server to host the API, enabling real-time queries and analytics with SQL
- Developed Google Analytics and Ads dashboards leveraging data from a fashion magazine's pipelines to track social media engagement and ad performance.
    - Built Excel models to optimize engagement strategies; used pivot tables, VLOOKUP, and XLOOKUP for performance analysis

## Work Experience

**IT Support Associate II**                    June 2021-Present
Amazon, Indianapolis, IN

**Data Analyst Intern**                    July 2020-February 2021
PATTERN Magazine, Indianapolis, Indiana