

# Trishu Patel

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## EDUCATION

### University of Tennessee, Knoxville

Knoxville, TN

Bachelor of Science in Computer Science

Minor in Business Administration and Mathematics

Expected May 2026

- GPA: 3.98/4.0
- Student Organizations: Hack4Impact, Ynot Vex Robotics Team

### Roane State Community College

Harriman, TN

Associate's Degree of Science

Graduated in May 2022

- GPA: 3.88/4.0

## PROJECTS

### NBA Game Predictor - Machine Learning Project

Creator

- Trained a ridge classification model to predicted results of NBA games with 64% accuracy
- Collected 7,500 games of historical game statistics using a web scraper made to train the model
- Manipulate and stored data with pandas to make it suitable for machine learning

### Auto Sudoku - Computer Vision Project

Creator

- Developed a Python script to automatically solve Sudoku puzzles in approximately 30 seconds
- Implemented pyTesseract to perform optical character recognition on a screenshot of the Sudoku board
- Performed image pre-processing techniques including binarization using openCV to improve the accuracy of OCR
- Used pyAutoGUI to input the solved board into the Sudoku.com

### Sustainable Future Center Website - Web App Project

Developer

- Volunteered with 4 other Hack4Impact UTK developers to create a front-end interface of a user-friendly relational database
- Designed a client-oriented model for saving and storing data
- Collected test data used to debug the website

### Minesweeper | [trishu-patel.github.io/Minesweeper\\_Website/](https://trishu-patel.github.io/Minesweeper_Website/)

Creator

- Made a recreation of the Microsoft Minesweeper using HTML, CSS, and JavaScript
- Added a feature to customize the size of the board and the number of mines
- Used object-oriented design to manage the state of the Minesweeper board
- Applied the flood fill algorithm to show surrounding cells that are zero

## EXPERIENCE

### Full Metal Jackets - FIRST Robotics Team

Team Captain

Aug 2018 - July 2022

- Held a leadership position for 3 years
- Increased the number of active members by 25% as Team Captain
- Designed, build, and programmed 10 robots over four years on the team
- Taught SolidWork and 3D printing to new team members

## SKILLS

**Proficient Languages:** Python, JavaScript, HTML, CSS, C++, Java, TypeScript

**Technologies:** React, CreateReactApp, OpenCV, pyTesseract, pygame, Pandas, SciKit Learn, BeautifulSoup4

**Development Tools:** Git, GitHub, GitHub Pages, Vercel, Visual Studio Code

**CAD:** SolidWorks