

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: 3.94/4.0
- Student Organizations: Hack4Impact, Association for Computing Machinery, Ynot Vex Robotics Team

Roane State Community College

Harriman, TN

Associate's Degree of Science

Graduated in May 2022

- GPA: 3.85/4.0

PROJECTS

Auto Sudoku

Creator

- Developed a Python Script to automatically solve Sudoku puzzles in approximately 30 seconds
- Employed 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

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/

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

TJ Fuel (Gas Station)

June 2019 - Present

Cashier/Manager

- Planned and started development on a website to manage business inventory
- Engaged with customers to find ways to improve the shopping experience
- Controlled money flow to support business growth and financial stability

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 SolidWorks and 3D printing to new team members

SKILLS

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

Technologies: React, Vite, CreateReactApp, OpenCV, pyTesseract, pyAutoGUI, pygame

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

CAD: SolidWorks