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 UTK, Association for Computing Machinery UTK

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 SolidWork 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