

Rudra Patel

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EDUCATION

University of Tennessee

Bachelor of Science in Computer Science

Knoxville, TN
Expected May 2026

Hillwood High School

High School Diploma

- GPA: 4.0/4.0

Nashville, TN
May 2022

PROJECTS

productivist | productivist.vercel.app | github.com/RudraPatel2003/productivist

Creator

- Built a responsive to-do list web application with React, Next.js, and Tailwind CSS
- Designed the website's initial UI/UX using Figma
- Incorporated OAuth through GitHub and Google with the next-auth library
- Persisted the JSON data of users through MongoDB if they were authenticated or local storage if they were unauthenticated
- Implemented a REST API in Next.js that handles GET and POST HTTP requests for the front-end client to read and update stored user data using MongoDB's Node.js driver
- Deployed the web application through Vercel's hosting platform

Sudoku Solver GUI | github.com/RudraPatel2003/Sudoku_Solver_GUI

Creator

- Developed a GUI using Python's pygame library to display a functioning Sudoku game to the user
- Added a feature that visualizes the Sudoku backtracking algorithm when prompted by the user

New York Times Spelling Bee Solver | github.com/RudraPatel2003/NYT_Spelling_Bee_Solver

Creator

- Created an algorithm that outputs a list of possible answers to the New York Times' Spelling Bee game
- Utilized Python and Selenium WebDriver to make a bot that automatically inputs possible guesses into the Spelling Bee game
- Retrieved the list of correct answers using web scraping in order to display them to the user

U.S. State Capitals Quiz GUI | github.com/RudraPatel2003/US_State_Capitals_Quiz_GUI

Creator

- Generated a GUI with Python's tkinter library that presents a quiz with up to 50 random questions
- Collected up-to-date U.S. state population information using web scraping

SKILLS

Languages: Python, JavaScript, HTML, CSS

Technologies: React, Next.js, CreateReactApp, MongoDB, Node.js, Figma, Selenium, BeautifulSoup4, tkinter, pygame

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

WORK EXPERIENCE

Target

Guest Advocate

- Hold positive interactions with over 160 guests per shift
- Resolve over 10 guest complaints per shift

Nashville, TN
June 2021 – Present