Rudra Patel

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EDUCATION

University of Tennessee Knoxville, TN
Bachelor of Science in Computer Science Expected May 2026
- GPA: 4.0/4.0
- Student Organizations: Hack4Impact UTK, Association of Computing Machinery

PROJECTS

Productivist | productivist.vercel.app
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

Community Coalition Against Human Trafficking
Developer
- Volunteered with 5 other Hack4Impact UTK developers to create an internal warehouse and inventory management system for a local nonprofit organization
- Spearheaded the implementation of user authentication using the next-auth library
- Followed the Scrum framework of agile development to complete project deliverables

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
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
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

Proficient Languages: TypeScript, JavaScript, Python, Java, 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