

Rudra Patel

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EDUCATION

University of Tennessee

Bachelor of Science in Computer Science

Knoxville, TN

Expected May 2026

- GPA: 4.0/4.0
- Student Organizations: Hack4Impact UTK, Society of Asian Scientists and Engineers

EXPERIENCE

Knoxville Utilities Board

May 2022 – Present

Software Developer Intern

- Refactored power outage notification system that sends up to 1 million notifications per week to provide over 400,000 customers with more accurate estimated restoration times
- Enhanced cybersecurity and data integrity by implementing stricter authorization requirements for public API endpoints
- Updated Java Enterprise Edition APIs to ensure long-term stability and to meet financial constraints
- Strengthened database security by migrating SQL database information to Microsoft's .NET Entity Framework Core
- Increased customer acquisition by improving the UI/UX on the fiber internet shopping page

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

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

SKILLS

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

Technologies: React, Next.js, Ember.js, MongoDB, Node.js, Figma, GitHub Actions, Jenkins, AWX

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