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, Society of Asian Scientists and Engineers, Tau Beta Pi

EXPERIENCE

Knoxville Utilities Board   May 2022 – Present
Software Developer Intern
- Rewrote power outage notification system that sends up to 1 million notifications per week to provide 400,000+ customers with more accurate 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 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

ParkUTK
Creator
- Created a cross-platform mobile application that helps students find parking on campus using React Native
- Containerized the back-end using Docker, ensuring consistency and scalability across different environments
- Utilized Google Cloud to host the API, leveraging serverless architecture for automatic usage-based scaling
- Orchestrated a CI/CD pipeline that automatically deploys the latest code changes to the cloud

Productivist | productivist.vercel.app
Creator
- Built a responsive to-do list web application designed with Figma using React, Next.js, and Tailwind CSS
- Incorporated user authentication with Google and GitHub OAuth, ensuring secure access to private data
- Persisted user JSON data through MongoDB or local storage depending on user authentication status
- Implemented a REST API in Next.js that securely handles requests from the front-end client to read and update stored user data using MongoDB's Node.js driver

Community Coalition Against Human Trafficking   October 2022 - May 2023
Developer
- Volunteered to create an internal warehouse and inventory management system for a local nonprofit organization that handles over 5000 items concurrently for over 35 staff members
- Collaborated with 6 other Hack4Impact developers to gather and implement product requirements using the Scrum Agile product development framework
- Spearheaded the implementation of user authentication using the next-auth library
- Released the final product, immediately increasing warehouse efficiency and improving productivity

SKILLS

Proficient Languages: TypeScript, JavaScript, Python, Java, SQL, C++, C#, HTML, CSS
Technologies: React, Next.js, Ember.js, MongoDB, Ansible, Node.js, Figma, GitHub Actions, Jenkins
Development Tools: Git, GitHub, GitHub Actions, Azure Data Studio, Vercel, Visual Studio Code