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

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

ParkUTK
Creator
- Created a cross-platform mobile application that can help students find parking on campus using React Native
- Containerized the back-end using Docker, ensuring consistency and scalability across different environments
- Utilized Google Cloud Run 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 with React, Next.js, and Tailwind CSS
- Designed the website's initial UI/UX using Figma
- Incorporated user authentication with Google and GitHub OAuth, ensuring secure access to private data
- 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 securely handles requests from 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

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, Azure Data Studio, Vercel, Visual Studio Code