

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, Tau Beta Pi

EXPERIENCE

General Electric Vernova

May 2024 – Present

Cloud Engineering Intern

- Streamlined AWS account creation process, decreasing account delivery time to stakeholders by 70%
- Implemented an Ansible playbook to facilitate Infrastructure as Code (IaC) for securely creating and managing AWS resources, reducing accidental spending by 40%
- Built a GitHub Actions workflow to verify that all IaC is valid and free of security vulnerabilities, maintaining codebase integrity and preventing data leaks

Knoxville Utilities Board

May 2023 – May 2024

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

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 framework for agile product development
- Spearheaded the implementation of user authentication to ensure data privacy and security
- 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, Azure Data Studio, Vercel, Visual Studio Code