

# Dhanush R. Chilakala

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## EDUCATION

### Virginia Polytechnic Institute and State University

*Bachelor of Science, Computational Modeling and Data Analysis, Computer Science*

Blacksburg, VA

Expected May 2028

## SKILLS

**Software Languages:** Java, Javascript, Python, React.js, SQL, Solidity

**Tools:** Git, Docker, Figma

**Foreign Languages:** English, Telugu, Hindi

## Experience

### Full Stack Developer (Contractor)

July 2024 - Present

*Hydroclean Car Wash*

*Carrollton, TX*

- Collaborated with a team of 3 to design and develop a responsive, user-friendly website using React.js and Next.js for seamless customer interaction and easy navigation
- Implemented secure payment integration using Stripe API, ensuring smooth and reliable transactions for customers
- Designed a dynamic booking system that captures license plate information and automates scheduling, enhancing customer convenience and efficiency by over **25%**

## ACTIVITIES

### HackTheChains | Next.js & Solidity

March 2024

*SMU Blockchain Club*

*Dallas, TX*

- Won 1st place in the Arbitrum track at SMU's HackTheChains Hackathon, competing against **100+ participants**, by collaborating with a programmer and 2 business analysts to develop BountyBlock, a platform that connects skilled 3rd world developers with tech companies
- Developed BountyBlock's smart contract using **Solidity** to enable secure, transparent, and easily convertible transactions between companies and freelancers, utilizing stablecoins such as USDC
- Designed & implemented BountyBlock's user-friendly UI/UX using **Figma, Next.js, and TailwindCSS**, ensuring an intuitive and engaging user experience

### AIFAHacks - AI Hackathon for Social Good | Next.js & Python

September 2023

*AI For All*

*Richardson, TX*

- Won 1st place overall at the AIFAHacks AI Hackathon for Social Good, competing against **200+ participants**, by collaborating with 2 programmers to develop a website using **Next.js** that provides personalized advice on reducing users' carbon footprints based on their responses to a questionnaire
- Developed a **Python API that leverages a Python Wrapper** to connect the frontend with Google BARD, enabling seamless integration between the front end and the advanced LLM

## PROJECTS

### Wordle Solver | Javascript

April 2024 - July 2024

- Developed a comprehensive 5-letter word dataset by utilizing a Wikipedia dump to sort words by letter commonality resulting in an accurate and efficient analysis for Wordle
- Identified the optimal starting word for Wordle by analyzing letter frequency data leading to improved initial guesses and gameplay strategy
- Created a custom, time/memory-efficient algorithm by integrating JavaScript resulting in the best word recommendations based on previous Wordle outcomes