

# Dhanush Chilakala

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## EDUCATION

### Virginia Tech

*Bachelor of Science in Computer Science, Computational Modeling & Data Analytics*

Blacksburg, VA

*Expected May 2027*

## LEADERSHIP

### VTHacks

*Organizer*

January 2026 – Present

*Blacksburg, VA*

- Collaborated with a team of 5 in the development of VTHacks' public website, and hacker application portal, supporting 600+ participants and multiple internal teams
- Designed and maintained data pipelines to synchronize applicant, hacker, and event data across multiple internal systems, eliminating manual reconciliation and improving operational reliability on event day

### Sustainable Food Manufacturing Research Team

*Provisur*

January 2025 - May 2025

*Blacksburg, VA*

- Worked under Provisur engineers and collaborated with research teammates to analyze industrial food processing equipment performance, focusing on sustainability and efficiency.
- Performed data acquisition and statistical analysis, and developed graphs and visualizations to identify patterns in hydraulic press energy usage and material properties of pork belly alternatives.

## EXPERIENCE

### VTHacks

*VTHacks*

September 2024

*Blacksburg, VA*

- Built a Next.js and MongoDB based app that uses university food APIs to create a filterable system, allowing users to sort meals by time of day, proteins, calories, fats, and carbs for personalized nutrition access
- Competed against 600+ participants at VT Hacks, working closely with 3 teammates to contribute to both frontend and backend development, ensuring smooth integration and functionality across the app's features

### HackTheChains

*SMU Blockchain Club*

April 2024

*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

## PROJECTS

### Simply Invite | *Typescript, Next.js, PostgreSQL*

November 2024 - January 2025

- Developed a full-stack web platform that enables users to upload custom-designed invitations and generate shareable event links, eliminating reliance on paid templates
- Designed and developed a responsive frontend with Next.js and TypeScript, improving usability across desktop and mobile devices
- Architected the application with modular components and API routes to support future enterprise-scale events with 1,000+ recipients

### WDLM Discord Bot | *Javascript, Discord.js, Next.js*

January 2024

- Achieved efficient and cost-effective file storage by creating a Next.js application that splits and uploads files to Discord in 25MB parts resulting in the elimination of the need for additional physical storage hardware

## TECHNICAL SKILLS

**Languages:** C/C++, HTML/CSS, Java, JavaScript, Typescript, Python, R

**Frameworks & Libraries:** React, Next.js, Vite, Sockets.io, NumPy, Pandas, Matplotlib, OpenMP, CUDA, MPI

**Databases:** MongoDB, PostgreSQL

**Developer Tools:** Docker, Eclipse, Git, Google Cloud Platform (GCP), IntelliJ, Neovim, NPM, VS Code