Dhanush Chilakala

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EDUCATION

Virginia Tech — Blacksburg, VA
Bachelor of Science in Computer Science, Computational Modeling & Data Analytics — *Expected May 2027*

LEADERSHIP

VTHacks — January 2026 – Present
Software Developer — *Blacksburg, VA*
- Collaborated with a team of 5 in the implementation of full-stack workflows for VTHacks' website/application system serving 800+ hackers 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 — January 2025 - May 2025
Data Research Intern — *Blacksburg, VA*
- Analyzed industrial hydraulic press performance for sustainability, identifying key drivers of energy usage and throughput for pork-belly alternative processing
- Collected senor/process data and ran statistical analysis to quantify energy-use patterns; produced visualizations that highlighted correlations between various press settings

EXPERIENCE

VTHacks — September 2024
VTHacks — *Blacksburg, VA*
- Built a Next.js and MongoDB app integrating university dining APIs to filter meals by macros for personalized nutrition access
- Competed against 600+ participants at VT Hacks, working closely with a team of 4 to lead frontend development, ensuring smooth integration and functionality across the app's features

HackTheChains — April 2024
SMU Blockchain Club — *Dallas, TX*
- Won 1st place in the Arbitrum track, competing against 100+ participants by building a platform that connects skilled 3rd world developers with tech companies using the blockchain
- Designed & developed BountyBlock's user-friendly UI/UX using Figma, Next.js, and TailwindCSS, ensuring an intuitive and engaging user experience

PROJECTS

Pre-Market | *TypeScript, Vite, Python, AWS* — January 2026 - Present
- Built a probabilistic detection model to identify anomalous Polymarket bets indicative of insider information by modeling conditional price movement, bet timing, and wallet-level behavior, achieving 76% accuracy
- Developed a Python backend using FastAPI to ingest, normalize, and score real-time Polymarket trade data, enabling low-latency risk scoring and explainable alerts for suspicious bets

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
- Implemented a mobile first UI in Next.js and TypeScript, including RSVP flow, event details, and share link experience
- Designed modular API routes and components PostgreSQL schema to support bulk recipients and future multi-event org use

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), AWS, IntelliJ, Neovim, NPM, VS Code