Pratheek Thummalapalli

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OBJECTIVE	Seeking Internship Opportunities (**Software Engineering**)
EDUCATION	BACHELOR OF ENGINEERING, **COMPUTER SCIENCE**, May 2026 Virginia Polytechnic Institute and State University (Virginia Tech), Blacksburg, VA
COURSE WORK	Data Structures, Problem Solving in Computer Science, Computer Organization (High School : Java, Python, Foundations of Eng., Calculus 2, Linear Algebra)
CERTIFICATIONS	**AWS** Certified Cloud Practitioner (Link)
SKILLS	**Java**, **JavaScript**, Python, C, C++, SQL, HTML, CSS, MD, Git, Flask, Git, Linux, Pandas, TensorFlow, Figma, Junit, Eclipse, UML, draw.io, MATLAB, SOLIDWORKS, Arduino, Machine Learning, Shell scripts, Jenkins, AWS, and MS Office (PPT, Word, Excel)

Projects

VT Hackathon Spring 2025 –

Tech Stack: MongoDB Atlas, React Native, React.js, Node.js, Express.js, Flask

- Developed a Full Stack Mobile &Web App for Virginia Tech students to connect, using React Native, React.js, and a Node.js/Express.js backend
- Integrated MongoDB Atlas for cloud storage and built a Flask-based API for backend services
- Implemented real-time data sync, user authentication, and an intuitive UI/UX for seamless interaction (Project Source)

VT Hackathon – Fall 2024

Challenge:

- Develop a system to analyze historical weather patterns and real-time data.
- Predict potential weather events using factors like humidity and temperature fluctuations.
- Provide users with an intuitive UI to monitor weather conditions in select areas.

Solution:

- Created a Weather Watch Web App using the Open-Mateo API.
- Tracks weather in select areas and analyzes the past two weeks of weather data.
- Utilized Python Libraries such as Pandas, NumPy, and TensorFlow
- Features a flexible and user-friendly UI. Project Source.

Follow-up Research:

- Designing a solution to collect future forecast data from multiple sources.
- Maintains predictability scores for various popular weather sources based on historical accuracy.
- Continuously improving the accuracy of the Machine Learning model

VT Innovation/Design Team – Spring 2024

- Co-designed a high-powered electric rocket prototype powered by a PCB.
- Assembled the rocket using motors, a Nomex parachute protector, and a tubular shock cord.

Key Course Projects/Problems Solved/WIP

- Hanoi Solver using MVC, Recursion, Stack, Java, JUnit, UML etc.,
- Puzzle Window using VT libraries with custom SimpleArrayBag and SimpleLinkedBag
- Spotify Playlist – an app using Java Script and LinkedList
- Movie Mania – A side project exercising my AWS Development and Dev Ops Skills

US Citizen – Can work for any employer in US.