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| Pratheek Thummalapalli  (804) 426-6004 | [pratheekt@vt.edu](mailto:pratheekt@vt.edu) | | | Permanent Address:  Greater Atlanta Area, Georgia  Find my CV online on git at [pratheekt72](https://github.com/pratheekt72/resume/blob/main/PratheekResume.pdf) |
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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**](https://www.credly.com/badges/f3e57de8-f66d-4f73-a81f-9fda2da91638)**)** | |
| **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) | |
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| **Projects** | | | |
|  | [**VT Hackathon**](https://vthacks-12.devpost.com/) **– 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](https://open-meteo.com/). * 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.   **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 * [Project Source](https://github.com/pratheekt08/HackathonProject). | | |
|  | [**Data Structures**](https://website.cs.vt.edu/Undergraduate/courses/CS2114.html) **– Hanoi Solver Fall 2024**   * **Design**: Built with the MVC pattern; front-end as an Observer for low coupling. Used UML. * **Implementation**: Used recursion, stack operations, and validation for disk placement. * **Development**: Implemented J-Unit tests for assurance and engineered for performance. | | |
|  | [**Data Structures**](https://website.cs.vt.edu/Undergraduate/courses/CS2114.html) **– Puzzle Window Fall 2024**   * Created a Java game using VT libraries with custom SimpleArrayBag and SimpleLinkedBag. * Designed algorithms for shape management and event-driven game logic. * Validated functionality with unit tests, including Testable Random. | | |
|  | [**VT GOBBLE ROCKETS**](https://gravt.vt.domains/GRAVT_Website/Subfiles/info.html) **– Spring 2024 (Innovation Lab Project)**   * 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. | | |
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