Janhavi Dhote

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Objective

Motivated Computer Engineering student at Georgia Tech with hands-on experience in software development, signal processing, and UI/UX design. Skilled in Java, Python, and full-stack web development, with internship and research experience in cloud, software-defined radio, and AI applications. Seeking a Computer Engineering internship starting Summer 2026 to apply technical expertise, problem solving skills, and project leadership in a dynamic, fast paced environment.

Education

Georgia Institute of Technology | Atlanta, GA *May 2025 – Present*
Bachelor of Science in Computer Engineering, GPA 3.75 Expected Graduation, May 2028

University of Georgia | Athens, GA *August 2024 – May 2025*
Transfer with 60 Credit Hours, GPA 3.90

Skills

Programming: Java (proficient), Python (proficient), HTML (proficient), JavaScript (intermediate), CSS (intermediate), Flutter (intermediate), Node.js (intermediate), C++ (intermediate)
Platforms: Windows, Linux (for GNU Radio / SDR applications)
Hardware: Arduino (ORP Probe project), Circuits & sensors (water quality detector), Robotics (drivetrain testbeds with WPILib)
Software: Android Studio, Visual Studio Code, IntelliJ, PyCharm, Microsoft Office, Google Suite, Figma, Anaconda, GitHub, Jira, AWS
Professional Organizations: Women in ECE (WECE), GT MAD (Mobile App Dev Club), Science Olympiad @ Georgia Tech

Experience

Small Satellite Research Lab, UGA| Athens, GA *Feb 2025 – July 2025*
Ground Operations Engineer

- Assisted with GNU Radio for software-defined radio (SDR) applications.
- Built signal processing flowgraphs in GNU Radio Companion (GRC).

Digitivy Solutions | Johns Creek, GA *May – August 2016*
Software Development Intern

- Designed UI/UX in Figma, used JS & React for the dashboard for user inputs, & used AWS for cloud deployment.
- Collaborated on building a web app, handling server-side scripting, managing databases, & creating APIs using Node.js
- Exposure in tools like Jira, Figma, and AWS, for project management, collaboration, and cloud computing skills.

Techno Titans Robotics | Johns Creek, GA *May – August 2016*
Subsystems Programmer

- Developed and optimized Java code with WPILib to control the robot drivetrain.
- Built and tested drivetrain systems, creating testbeds for troubleshooting and training.
- Collaborated with teammates to qualify for state and world competitions.

Projects

Med-Perplexity| Work Based Learning *December 2023 - April 2024*

- Developed the frontend of a medical AI chatbot using Next.js to make a user-friendly interface for patient interaction.
- Designed and prototyped the chatbot interface in Figma, focusing user experience and healthcare design elements.
- Collaborated with three other developers to integrate the frontend with cloud-based services, gaining experience in API

ORP Probe| Science Olympiad *June 2023*

- Designed and built a water quality detector using Arduino, circuits, and sensors to measure salt levels and conditions.
- C++ to program the arduino to detect anions, cations, and reactions to assess water safety.
- Integrated a 3-light system to visually indicate danger levels, enhancing usability and real-time monitoring.

Relevant Coursework

Digital Design Laboratory: Design & implementation of digital systems; CAD tools, logic synthesis & VHDL; combinational/sequential circuits & timing with oscilloscope/logic analyzer; simple computer on FPGA; machine/assembly programming; team design project
Programming for Hardware/Software Systems: ISA-based execution & storage; software design with data/procedural abstractions; assembly implementation; multi-file builds & OS capabilities (files, I/O); debugging/performance; embedded software & energy
Data Structures: Asymptotic analysis, recursion (induction, tree & Master methods); ADTs (lists, stacks, queues); search trees (BST, AVL, red-black, B-trees); heaps & priority queues; graphs (adjacency reps, DFS/BFS, MST, topological sort, Dijkstra/Bellman-Ford); hash tables (open addressing & chaining); design strategies (greedy, divide-and-conquer, dynamic programming); sorting
Design & Analysis of Algorithms: Big-O, logs, Fibonacci; MergeSort & recurrences (Master Theorem); modular arithmetic & RSA; FFT; dynamic programming (LIS, LCS, knapsack, chain matrix mult.); graph algorithms (DFS, BFS, Dijkstra, MST, SCC); reductions & NP-completeness