Shyam T. Tridandapani

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Objective

Energetic 5th-year Computer Engineering major seeking an information technology or network engineering internship for Spring 2026. Experienced with databases, low- and high-level programming, computer networking, data structures and algorithms, microcontroller design, control systems, computer architecture, circuit prototyping, signal processing, and effective teamwork.

Education

Georgia Institute of Technology | Atlanta, GA *June 2021 – Present*
B.S. in Computer Engineering, GPA 3.64 Expected Graduation, May 2026

Skills

Programming and Software: Amazon AWS, Java, Python, C, C++, ARM Assembly, MIPS Assembly, RISC-V Assembly, VHDL, Verilog HDL, HTML/CSS, bash, Linux/Unix, Wireshark, Intel Quartus Prime, NI LabVIEW, Terminal/PowerShell, FactoryTalk View, Ignition HMI
Hardware: ARM mbed microcontroller, NI MiDAQ, FPGAs, oscilloscope, logic analyzer, soldering, component assembly
Communication: Design proposals, effective presentations, long-term planning, team leadership.

Experience

Georgia Institute of Technology | Atlanta, GA *August 2022 – Present*
Computer Lab Assistant / School of Electrical and Computer Engineering (ECE)

- Maintain and service a 24/7 100+ computer lab running Red Hat Linux and Windows used daily by ECE students.
- Provide customer support to 1400+ ECE students with technical issues regarding the lab's systems.
- Analysis of hardware and software issues for troubleshooting purposes of computers and printers.
- Setup of hardware and software to provide each student with a streamlined, frustration-free experience.

Dennis Group | Duluth, GA *January 2024 – May 2024*
Co-Op Controls Engineer

- Compiled and automated 40000+ factory checklists using Ignition HMI and Excel, laying the groundwork for on-site engineers.
- Conducted field-work at four different factory sites, gaining hands-on experience with HMIs, PLCs, and manufacturing controls..
- Restructured the Atlanta Office's controls components inventory, ensuring efficiency and ease of access for a team of 100.
- Organized 10+ vendor visits to build and strengthen connections between senior engineers and component vendors.

Georgia Institute of Technology | Atlanta, GA *June 2021 – August 2022*
Hardware Lab Assistant / School of Electrical and Computer Engineering

- Managed the Georgia Tech ECE Senior Design Lab with a team of 10 that served 1400+ undergraduate and graduate students.
- Maintained multiple lab spaces to prevent failures and inefficiencies when students used the spaces.
- Prepared 3D printers, milling machines, laser cutters, large power tools, soldering stations, and oscilloscopes.

Projects

Cloud Microservices Chatroom *April 2025*

- Deployed Dockerized microservices on AWS EC2 instances (public IP + security group)
- Implemented RESTful endpoints to decouple services and enable simultaneous real-time messaging between multiple users
- Utilized DynamoDB to store and query chat history with a balance of low latency and redundancy
- Implemented user authentication and authorization with Cognito and automated infrastructure provisioning via CloudFormation

Relevant Coursework

Cloud Computing: Designed and deployed scalable cloud applications using AWS, including DynamoDB-based NoSQL systems, serverless data processing with Lambda and API Gateway, and automated infrastructure via CloudFormation; worked with containers, MapReduce, Spark, and troubleshooting of performance issues across distributed systems.

Computer Communications: Explored network architecture, TCP/UDP, network layers, IP protocol, routing, SDN, and Wi-Fi. Gained hands-on experience with socket programming, Wireshark, and practical labs.

Advanced Programming Techniques: Wrote distributed and parallel computing, multithreading, OpenMP, CUDA, and GPU programs. Built and debugged efficient computational solutions using OpenMPI, OpenGL, and high-performance computing methods.