

YASHAD GURUDE

Atlanta, GA

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Education

Georgia Institute of Technology

Grad: May 2026

Bachelor of Science in Computer Engineering

Atlanta, Georgia

Minor in Engineering & Business through the Denning Technology & Management Program

GPA: 3.5

- **Concentration:** Information Internetworks & Computing Hardware/Emerging Architecture
- **Relevant Coursework:** Embedded Systems, Analysis of Algorithms, VLSI Design, Advanced Digital Design, Computer Architecture, Database Management, Financial and Managerial Accounting, Finance and Investments

Experience

AT&T

July 2026 - Present

Software Engineer I - Core Infrastructure

Atlanta, Georgia

- Automated **Kubernetes** container provisioning on **AWS Outpost** servers, enabling teams to self-service infrastructure
- Engineered **infrastructure-as-code** workflows to standardize container deployment across AWS Outpost environments
- Built an **AI module** to aggregate cluster metrics, surfacing **root-cause diagnostics** to reduce on-call resolution time

American Express

June 2026 - July 2026

Software Engineer Intern - Core Infrastructure

Phoenix, Arizona

- Built a **Python-based Ansible playbook** to automate server migration for **3,000+ servers** during a data center transition, cutting migration time by **35-40%**
- Automated **infrastructure provisioning** and lifecycle management across the Core Infrastructure team
- Developed an **LLM-powered assistant** using **RAG** to analyze playbooks, and reduce troubleshooting time by **30%**

NCR Voyix

October 2025 - May 2026

Software Engineer Intern - AI/ML on Freshop

Atlanta, Georgia

- Built a **ML-driven** matching system on **Databricks** with **85-90%** ingredient-to-product match accuracy, improving recipe-based shopping workflows
- Designed a recipe scraper using **OpenAI API** to scrape online recipes and process hundreds of recipes per run
- Optimized a **vector-based search model** by generating embedding representations for **50,000+** store catalog products, applying cosine similarity to match recipe ingredients to store items with high precision and low latency

Projects

Machine Learning Stock Predictor | Python, JupyterLab, RandomForestClassifier ML Model

June 2025

- Utilized a Random Forest Classifier to predict S&P 500 index trends based on historical stock data from the last 10 years, achieving a prediction accuracy of approximately **57-60%** through rigorous model training and testing
- Employed a backtesting approach to evaluate the model's performance over historical data, ensuring reliable predictions
- Enhanced performance by integrating predictors, including price ratios and trend indicators, computed over time periods

Autonomous Pen Plotter Robot | Embedded Systems, C++, C, Mbed, Keil Studio

May 2025

- Designed and built an autonomous Bluetooth-controlled pen-plotting robot using an mbed microcontroller, capable of rendering any of 26 letters or full words on the ground with directional accuracy within $\pm 10^\circ$
- Integrated 8 hardware peripherals, including IMU, dual battery packs, and RGB LEDs, to enhance real-time feedback, maintain system stability, and increase motor reliability by 100% under extended runtime

Retro Quest Game | Embedded Systems, C++, Keil Studio, Circuit Design

January 2025

- Developed the hardware/software components for a retro role player game with 3 maps and 5+ tasks to complete a quest
- Constructed a gaming setup by integrating diverse hardware components, including an OLED display, joystick, SD drive
- Implemented a software framework in C++, using storage mechanisms to organize items and test 100+ scenarios

Technical Skills

Software: Python, Java, C, C++, Linux, Javascript, Typescript, SQL, React, MATLAB

Hardware: SystemVerilog, VHDL, ARM, RISC-V, MIPS, MBED, ModelSim, Embedded Systems, Digital Design

Affiliations: Alpha Kappa Psi, GTSF Investments Committee, GT Hytech Racing, Ramblin' Roundnet, Eagle Scout

Interests: Pickleball, Basketball, Running, Spikeball, Real Estate, Investments