

Abhinav Yedla

📍 Atlanta, GA | 📞 470-701-6948 | 📩 abhi.yedla2004@gmail.com | 💬 linkedin.com/in/abhinav-y

EDUCATION

University of Georgia

Athens, GA

Masters of Science in Computer Science (Double Dawgs Program)

Expected May 2027

Bachelor of Science in Computer Science

Expected May 2026

Cumulative GPA: **3.67** | Honors: Presidential Scholar (Summer 2025)

Relevant Coursework: Algorithms, Software Engineering, Operating Systems, Web Programming, Data Science, Statistics

WORK EXPERIENCE

VIPR AI/ML and Agricultural Robotics

Athens, GA

Undergraduate Research Assistant

Jan 2026 – Present

- Developed automated **backend services** for high-fidelity validation of **large-scale LiDAR datasets**, processing thousands of frames using **Python** for **AI/ML** models.
- Implemented tree trunk perception logic to improve **autonomous agricultural robot navigation**, validating against ground-truth data for enhanced **ML performance**.
- Documented workflow processes and analysis methods, ensuring reproducibility and clarity through **standardized logging protocols** for **MLops**.

Barberitos (On Campus)

Athens, GA

Student Worker

Mar 2025 – May 2025

- Coordinated task delegation for high-volume customer service, maintaining accuracy through efficient team communication.
- Managed over \$1,000+ daily transactions with precise point-of-sale operations, ensuring zero financial discrepancy.

PROJECTS

Data Processing and Predictive Analytics System | Python, Docker, CI/CD

- Automated **ETL pipelines** for large datasets using **Python** and **Docker** with **CI/CD**, reducing preprocessing time on cloud for **MLops**.
- Optimized **predictive model accuracy** by evaluating multiple **ML/NLP** feature sets and selecting effective predictors using **k-fold cross-validation**.
- Implemented KPI checks and **data validation scripts** to automate **anomaly detection** and data quality issue identification for **ML pipelines**.

Movie Review Website | React, RESTful APIs, Git

- Developed a full-stack web application using **React** to streamline dynamic UI updates and review rendering via robust **RESTful APIs**.
- Implemented modular backend design and version control with **Git**, enhancing application maintainability and **DevOps deployment speed**.

Survey Form Web Application | React, UI/UX, Web Standards

- Simplified layout and field grouping using **React components**, streamlining data submission flow for users.
- Incorporated iterative user feedback into frontend design, improving overall accessibility and interface responsiveness.

File Comparison Tool | C, C++, Memory Optimization

- Engineered a high-performance byte-level utility in **C/C++**, decreasing comparative analysis runtime for **large files** (1GB+).
- Optimized memory allocation and execution flow with **advanced data structures**, increasing system reliability for repeated **performance analysis**.

TECHNICAL SKILLS

Languages: Python, Java, C/C++, C#, SQL, JavaScript, HTML/CSS, R

Frameworks/Libraries: React, Node.js, Next.js, Pandas, NumPy, Matplotlib

Tools & Platforms: Git (GitHub, GitLab), Docker, AWS, Linux/Unix, VS Code, npm, PyCharm, IntelliJ

Data & Perception: LiDAR (Velodyne VLP-16), Point Cloud Processing, PCAP File Processing, Spatial Analysis, Geometric Modeling

Concepts: Object-Oriented Programming, Agile, Data Analytics, Full-Stack Development, Backend & Frontend Engineering