

Abhinav Yedla

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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** to ingest and process **LiDAR frames**, achieving high-fidelity validation of large-scale datasets using **Python**.
- Implemented tree trunk perception logic against ground-truth data, improving **autonomous robot navigation systems** and validating performance.
- Documented workflow processes and analysis methods using **standardized logging protocols**, ensuring system reproducibility and clarity for the team.

Barberitos (On Campus)

Athens, GA

Student Worker

Mar 2025 – May 2025

- Coordinated tasks for 100+ daily patrons, ensuring service accuracy and efficient high-volume operations.
- Managed over \$1,000 in daily transactions, ensuring financial reliability with precise point-of-sale operations.

PROJECTS

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

- Automated **ETL pipelines** for large-scale data processing and **database integration** using **Python** and Docker, reducing manual preprocessing time.
- Evaluated multiple ML/NLP feature sets with **k-fold cross-validation**, achieving optimized predictive model accuracy.
- Implemented KPI checks and **data validation scripts**, automating **anomaly detection** and data quality issue identification.

Movie Review Website | *React, RESTful APIs, Git*

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

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

- Developed responsive **frontend** using **React** and **HTML5**, simplifying data submission flow and field grouping.
- Incorporated iterative user feedback into **frontend design architecture**, improving accessibility and interface responsiveness.

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

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

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