

# 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 **large-scale LiDAR datasets**, ensuring high-fidelity validation of thousands of frames using **Python**.
- Improved **robot navigation applications** by implementing tree trunk perception logic, validating against ground-truth data through **team collaboration**.
- Documented workflow processes and analysis methods using **standardized logging protocols**, ensuring **reproducibility and clarity** for team operations.

### Barberitos (On Campus)

Athens, GA

*Student Worker*

*Mar 2025 – May 2025*

- Coordinated task delegation for high-volume daily foot traffic, maintaining **service accuracy** for over **100 patrons** using efficient communication.
- Managed **daily financial transactions** exceeding **\$1,000**, ensuring zero discrepancy and reliability using precise point-of-sale operations.

## PROJECTS

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

- Automated **ETL pipelines** for **large-scale datasets** using **Python** and **Docker**, reducing manual data preprocessing time for system efficiency.
- Optimized **predictive model accuracy** by selecting effective features from ML/NLP sets, enhancing model performance for data analysis tasks.
- Implemented **data validation scripts** to automate **anomaly detection** and identify data quality issues, improving system reliability.

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

- Developed a full-stack web application with **React** and **RESTful APIs**, managing user reviews in a **SQL database** for dynamic updates.
- Implemented a **modular backend design** and version control with **Git**, enhancing application maintainability and deployment speed for the system.

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

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

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

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