

# 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 **Python** backend services to efficiently ingest and process **LiDAR frames**, enabling high-fidelity data **validation**.
- Implemented tree trunk perception logic, enhancing **robot navigation** efficiency through **cross-functional team reviews**.
- Documented workflow processes and analysis methods, ensuring team **reproducibility** and clarity using **standardized logging protocols**.

### Barberitos (On Campus)

Athens, GA

*Student Worker*

*Mar 2025 – May 2025*

- Coordinated task delegation with a shift team, maintaining **service accuracy** for 100+ patrons through **fast-paced communication**.
- Managed exceeding **\$1,000 daily transactions**, ensuring **financial reliability** through precise **point-of-sale operations**.

## PROJECTS

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

- Automated **ETL pipelines** with **Python** and **Docker (CI/CD)**, reducing manual preprocessing time for large datasets.
- Evaluated multiple ML/NLP feature sets, achieving **optimized model accuracy** through **k-fold cross-validation** and effective predictor selection.
- Implemented KPI checks using **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 review rendering.
- Implemented a modular backend design and **Git** version control, enhancing **application maintainability** and deployment speed.

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

- Streamlined data submission flow using **React components**, simplifying layout and field grouping to enhance **user experience**.
- Incorporated iterative **user feedback** into frontend design, improving **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 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