

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 **Python backend services** for ingesting **large-scale LiDAR datasets**, ensuring high-fidelity validation and processing efficiency for thousands of frames.
- Implemented tree trunk perception logic, enhancing **robot navigation software** with ground-truth data through **cross-functional team reviews** and agile practices.
- Documented workflow processes and analysis methods using **standardized logging protocols**, ensuring **reproducibility** and clarity for software development team collaboration.

Barberitos (On Campus)

Athens, GA

Student Worker

Mar 2025 – May 2025

- Coordinated task delegation within a shift team, maintaining **high service accuracy** for 100+ daily patrons through **efficient communication workflows**.
- Managed over **\$1,000+ daily transactions** with precise point-of-sale operations, ensuring **zero discrepancy financial reliability** and operational integrity.

PROJECTS

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

- Automated ETL pipelines for **large-scale datasets** using **Python and Docker (CI/CD)**, significantly reducing manual data preprocessing time.
- Evaluated ML/NLP feature sets with **k-fold cross-validation**, achieving **optimized predictive model accuracy** for robust data analysis solutions.
- Implemented KPI checks using **data validation scripts**, automating **anomaly detection** and identifying data quality issues within the system.

Movie Review Website | React, RESTful APIs, Git

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

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

- Simplified data submission flow using **React components** and intuitive field grouping, enhancing the overall **frontend user experience**.
- Incorporated iterative user feedback into **frontend design architecture**, improving **accessibility** and interface responsiveness for the web application.

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+)** efficiently.
- 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