Sandy Llapa

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Education

University of Minnesota - Twin Cities, College of Science & Engineering **Graduated:** December 2024
B.S in Computer Science
Dean's List: Spring 2022 & 2023

Technical Skills

- **Languages:** *Python, Java, HTML5, CSS, C, C++, TypeScript, JavaScript*
- **Frameworks & Libraries:** *React.js, Node.js, Express.js, Bootstrap*
- **Databases:** *MySQL, PostgreSQL, MongoDB*
- **Developer Tools:** *Git, Github, Docker, Visual Studio Code, Atom, Unit Testing, Debugging*
- **Data & Web Technologies:** *XML, JSON, HTTP, REST APIs*
- **Software Development:** *Agile, Scrum, Design Patterns, OOP*

Certifications

AWS Cloud Essentials - Amazon Web Services *02/2025*
- Foundational knowledge of AWS Cloud services, including compute, storage, networking, databases, security, and pricing.

AWS Knowledge: Compute – Amazon Web Services *02/2025*
- Focused knowledge of AWS Compute concepts, specifically Amazon EC2.

Projects

Social Media App *12/2024 - 01/2025*
- Developed a full-stack web application enabling users to create posts, upload images, and manage friend connections.
- Implemented secure authentication and image upload handling with PostgreSQL integration.
- Optimized backend processes to enhance scalability and system performance, aligning with the role's focus on system improvements.

Personal Task Manager *11/2024 - 12/2024*
- Built a task manager app featuring CRUD operations, user authentication, and state management.
- Used mySQL for data storage and retrieval, enhancing scalability and performance.

Code Security - Volunteer Tutor *01/2024 - 05/2024*
- Guided peers in identifying and mitigating security vulnerabilities in complex codebases.
- Led troubleshooting efforts, ensuring peers understood and resolved technical issues effectively.
- Improved understanding of security best practices, strengthening overall system resilience.

Web-Based Drone Delivery Simulation *09/2023 - 12/2023*
- Implemented algorithms (A*, Dijkstra, DFS, BFS) to optimize routing, demonstrating strong problem-solving and algorithmic skills.
- Developed rerouting logic for low-battery scenarios and real-time user notifications.
- Coordinated with a team of 3 developers, simulating real-life startup dynamics under tight deadlines.

Work Experience

Lab Assembler - *Johnstech International* *05/2022 - 08/2022*
- Assembled and tested electronic components, ensuring compliance with reliability and security standards.
- Collaborated with cross-functional teams to meet project deadlines, demonstrating strong time management and teamwork skills.

Lab Assistant Intern - *Johnstech International* *05/2021 - 08/2021*
- Assisted in debugging and testing electronic components, enhancing problem-solving and troubleshooting skills.