

# THUY LINH PHAM

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## EXPERIENCE

### Orange Coast College, Biology Lab, Student Assistant Costa Mesa, California, Mar 2023 - Aug 2024

- Coordinated and maintained laboratory equipment, ensuring optimal functionality, leading to a 20% reduction in instrument downtime.
- Processed and prepared biological specimens using centrifugation, filtration, and chemical extraction techniques, ensured high sample integrity, and increased analysis efficiency by 25%.
- Managed and organized the inventory of reagents, chemicals, and lab materials, implementing a tracking system that streamlined supply operations to ensure timely restocking and reduced material shortages by 80%.
- Set up exams, tested samples, provided lab material for 20+ students, and professors, and disinfected tables in testing areas after each section.

## ACADEMIC PROJECT

### Application Developing Nov 2024 - Dec 2025

#### Airport Route Finder App

- Developed a graph-based Java application to model relationships between airports and direct flight routes.
- Implemented a directed graph using an adjacency list to represent airports and routes with weighted edges.
- Utilized Dijkstra's algorithm with a priority queue to compute the shortest path between two airports.
- Integrated a Hashed Dictionary ADT for fast airport data retrieval and route lookups.
- Executed comprehensive testing, validating vertex and edge additions, pathfinding accuracy, and error scenarios.
- Handled file operations and data parsing to load airport and route information from CSV files.
- Ensured robust error handling for invalid inputs, disconnected airports, and file parsing errors.

## EDUCATION

### California State Polytechnic University, College of Science Pomona, California

#### Bachelor of Science, Computer Science

Fall 2024

- Course Relevant: Data Structure Advanced Programming, Computer Organizations and Assembly Programming, System Programming, Computer Architecture.

### Orange Coast College

Costa Mesa, California

#### Associate of Arts, Computer Science

Fall 2022

- Certificated in Outstanding Performance of Student Employment Program.
- Awarded the Distinguish Honor in Action project in Nevada/ California region.
- Received PTK Scholarship 2023-2024.

## ACTIVITIES

### Orange Coast College, Volunteer Dec 2022 - Feb 2024

- Volunteered at VCSA OCC's Feed the Less Fortunate event, helping provide food to those in need.
- Painted houses for elderly people in Costa Mesa.

### Phi Theta Kappa Honor Society in OCC,, Member of HIA Project

Sep 2023 - Jan 2024

- Performed as a Quantitative and Qualitative Analysis Research Assistant.
- Developed data collection instruments and conducted surveys with participants using Excel and Google Forms.
- Organized research materials, including data files, charts, graphs, and other documents.
- Created databases to track progress on various research initiatives.
- Conducted interviews with stakeholders to gather information on project objectives and goals.

## SKILLS

- Programming Languages: Java, C++
- Soft Skills: Detail Orientation, Problem Solving, Multi Task, Time Management, Strategic Planning
- Tools: VS Code, GitHub, Microsoft Office
- Language: English, Vietnamese (Native)