

# Chloe Vasquez

*Algorithm Engineer*

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## Professional Summary

Algorithm Engineer with 6 years of experience designing and optimizing algorithms for real-time processing, logistics, and recommendation systems. Strong background in data structures, graph theory, and algorithm scalability.

## Skills

C++, Python, Algorithm Optimization, Data Structures, Dynamic Programming, Graph Algorithms, Computational Geometry, Memory & Time Profiling, NumPy/Scipy, Code Complexity Analysis

## Experience

Algorithm Engineer - OptiCompute Labs (2020 - Present)

- Developed and refined algorithms for logistics optimization and scheduling.
- Reduced runtime of pathfinding algorithms by 40% using heuristics and pruning techniques.
- Implemented data structure libraries for use in simulation models.

Software Engineer - PathAxis (2017 - 2020)

- Wrote scalable search algorithms for a recommendation engine.
- Built algorithm test suites and automated complexity benchmarking.

## Education

B.S. in Applied Mathematics and Computer Science, University of Wisconsin-Madison, 2016