

# Luke Gude

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## Education

### University of Maryland - Baltimore County

Baltimore, MD

*Bachelors of Science - Computer Science*

*Aug 2019 - May 2023 (Expected)*

*GPA: 3.8/4.0(Major) 3.2/4.0 (Actual)*

## Skills and Relevant Coursework

**Programming Languages:** *Prior experience in C++, Python, SQL, Java, Swift, Linux, Assembly*

**Industry Knowledge:** *System development, Software Development, Cloud computing, Machine Learning*

**Relevant Coursework:** *Software Engineering I, Introduction to Artificial Intelligence, Data Structures, Discrete Structures, Design& Analysis of Algorithms*

## Work Experience

### Software Engineer - Research Assistant

Baltimore, MD

*University of Maryland - Baltimore County*

**11/2021 - Present**

- Worked with several PhD students to reduce the power consumption and travel time of clock signal distribution
- Reduced clock power by 43% using custom algorithm and patented tools
- Developed on multi-tiered system to produce a tool to simulate distributions
- Constructed multiple algorithms using complex data structures to minimize time complexity and runtime
- **Skills Used:** *C/C++, Python, Linux, Assembly*

### Data Science Programmer

Baltimore, MD

*University of Maryland - Baltimore County*

**06/2020 - 11/2021**

- Integrated business intelligence assets into customer relationship management tasks, improving service personnel's available intelligence.
- Optimized business intelligence reporting capabilities for secure server environment.
- **Skills Used:** *SQL, Python*

## Personal Projects

### ZeroSkew CDN Algorithm

- Developed algorithm on top of unique, custom-made data structures to send a signal from an origin to any number of points at the same time using advanced unwinding recursion and divide and conquer
- **Skills Used:** *C/C++, Python, Git*

### Cryptocurrency Trading Bot

- Implemented Machine Learning techniques such as Neural Networks and Random Forest Classifier on top of multiple technical indicators to project the best time to buy and sell an asset for highest ROI.
- **Skills Used:** *Python, Machine Learning, Deep Learning*

## Hobbies/Interests

### Member of Varsity Swimming and Diving Team

Baltimore, MD

*University of Maryland - Baltimore County*

**Aug 2019 - Present**

- Demonstrated exceptional time commitment while training 20+ hours per week while holding a good GPA and jobs
- Shows great teamwork skills