

# CLAYTON KRISTIANSEN

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## EDUCATION

**Texas A&M University**, College Station, Texas  
*Bachelor of Science in Computer Engineering*, Graduating with Honors  
GPR: 4.0

May 2023

## EXPERIENCE

**Aggie Research Program**, Texas A&M University  
*Researcher*

Sep 2021 – Present

- Researching materials for plant-based supercapacitors to reduce use of harmful chemicals in electronics
- Utilizing LSTM and RNN machine learning algorithms to predict efficacy of materials

**Aggieland Tutoring**, College Station, TX  
*STEM Tutor*

Sep 2021 – Dec 2021

- Taught programming, math, and physics to first and second year students

**SEC Directed Internship Program**, Texas A&M University  
*Development Intern*

Jun 2021 – Aug 2021

- Led team of 5 engineers conceptualizing use of unsupervised deep learning for new online apparel shopping technologies

## PROJECTS

**Fourier Series Visualizer**  
*Independent Project (Python)*

Nov 2021 – Dec 2021

- Wrote a Python script for demonstrating the Fourier Series as an education tool for students
- [github.com/claytonkristiansen/FourierSeriesVisualizer](https://github.com/claytonkristiansen/FourierSeriesVisualizer)

**Buddy Allocator**  
*Independent Project (C++)*

Oct 2021 – Nov 2021

- Created a custom memory management system on Linux using buddy allocation
- [github.com/claytonkristiansen/BuddyAllocator](https://github.com/claytonkristiansen/BuddyAllocator)

**Algorithms Web Visualization**  
*Independent Project (Javascript, HTML, CSS)*

May 2021 – Aug 2021

- Developed website with interactive, visual demonstrations of Dijkstra's and Heap Sort
- [claytonkristiansen.github.io/Algorithms](https://claytonkristiansen.github.io/Algorithms)

**CyberCypher Android App**  
*Team Project (Java)*

Aug 2020 – Oct 2020

- Managed a three-person team creating a messaging app with end-to-end encryption
- [github.com/claytonkristiansen/CyberCypher](https://github.com/claytonkristiansen/CyberCypher)

## TECHNICAL SKILLS

Git | C++ | Python | Verilog | Java | C# | Javascript | Powershell | HTML

## ACTIVITIES

**Aggie Coding Club**

Feb 2020 – Present

- Developed new programming skills doing 2 team projects and attending workshops

**TAMUhack**

Jan 2020 – Present

- Won best mentor and helped over 50 teams solve technical problems in 24 hours

**Christian Engineering Leaders**

Sep 2019 – Present

- Led team of 15 planning and executing career development events with industry professionals

## AWARDS and HONORS

Engineering Honors | President's Endowed Scholar | Dean's List