CLAYTON KRISTIANSEN

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EDUCATION

Texas A&M University, College Station, Texas   Aug 2019 – May 2023
Bachelor of Science in Computer Engineering
GPA: 4.0

EXPERIENCE

Software Engineer, Texas Instruments
Dallas, TX   May 2023 – Present
- Working on a tight knit team writing system level software for dozens of custom battery gauges.
- Contribute code to mission critical large system software codebase following the Agile process.
- Leading project to bring team's CI/CD practices up to date with modern standards.

Undergraduate Researcher, Texas A&M University
College Station, TX   Aug 2022 – May 2023
- Implemented Markov Clustering algorithm using the graphBLAS linear algebra library.
- Contributed to the LAGraph project with Dr. Timothy Davis: github.com/GraphBLAS/LAGraph.

Digital Design Engineering Intern, Texas Instruments
Federal Way, WA   Jun 2022 – Aug 2022
- Part of a 5-person engineering team developing a program to validate register communication protocol functionality on one of TI's newest chip designs.
- Created Markdown documentation used by over a dozen engineers throughout the organization.
- Established engineering process to get the at-risk project through design approval on time.

PROJECTS

Aggie Ambassadors Member Tracking App
Team Project (Ruby on Rails)   Nov 2021 – Dec 2021
- Lead developer on a 5-person team developing a member tracking web app for a university club.
- github.com/claytonkristiansen/AggieAmbassadorsApp

Buddy Allocator
Independent Project (C++)   Oct 2021 – Nov 2021
- Created a custom memory management system on Linux using buddy allocation.
- 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

TECHNICAL SKILLS

Agile | Software Design | Test & Verification | Git | C++ | Python | Verilog | Java | C# | Linux | Powershell

ACTIVITIES

Aggie Coding Club   Feb 2020 – May 2023
- Developed new programming skills doing 2 team projects and attending workshops.

TAMUhack   Jan 2020 – May 2023
- Won best mentor and helped over 50 teams solve technical problems in 24 hours.

Christian Engineering Leaders   Sep 2019 – May 2023
- Led team of 15 planning and executing career development events with industry professionals.

HONORS and AWARDS

Engineering Honors | President's Endowed Scholar | Dean's List | Best Beginner Hack TAMUhack 2022