

COLBY ENDRES

Austin, TX

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EDUCATION

Texas A&M University

Bachelor of Science in Applied Mathematics (Honors)

Minor: Computer Science

Aug 2020 - Dec 2023

College Station, TX

GPA - 3.96/4.00

Texas A&M University

Master of Science in Computer Science

Jan 2024 - Aug 2025

College Station, TX

EXPERIENCE

Tactical Computing Laboratories

May 2022 – present

Research Engineer Intern/Research Engineer

- Developed an interpreter in C++ for the MLIR intermediate representation
- Implemented various graph and linear algebra algorithms for testing RISC-V CPU simulator
- Extended FFTW to support RISC-V Vector Extension
- Created BLAS testing framework with C and CTest

Texas A&M University

Aug 2021 – Dec 2023

Teaching Assistant

College Station, TX

- Served as teaching assistant for MATH 171H (Calculus I Honors) and MATH 172H (Calculus II Honors)
- Led weekly recitation sessions to reinforce students' knowledge of course material
- Graded assignments and provided feedback for student submissions

PROJECTS

AggieAssign | Ruby on Rails

- Designed a full-stack application for generating the computer science department's semester class schedule
- Curated professor preference data and room/class availability from university resources
- Leveraged linear programming techniques to create schedules maximizing instructor satisfaction
- Reduced generation time from multiple days to under a minute

QEDSports | Python, Flask, Tailwind

- Generated 15k+ entry college football game dataset via REST APIs
- Used graph analytics and generative AI to provide explanations for college football matchups

Cacheus | C++

- Participated in a competition for designing cache replacement policies for scientific workloads
- Implemented a reinforcement-learning based approach in the ZSim simulator
- Outperformed classical policies by $\approx 5\%$ with respect to miss rate

TECHNICAL SKILLS

Languages: C++, C, Python, RISC-V Assembly

Software/Frameworks: LATEX, Git, MPI, NumPy, PyTorch

EXTRACURRICULARS

Texas A&M Disc Golf Club

Aug 2021 – Aug 2025

Team Member

College Station, TX

- Competed on the Texas A&M competitive disc golf team
- Represented the university in local and state level tournaments

Sabine ISD

July 2021-2023

Student Instructor

Gladewater, TX

- Served as an instructor for *Here's Your Sine*, a week-long mathematics camp for high school students