Thomas Kaldahl

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Education

- Rice Univ. *Aug. '20 Dec. '24*
 - BSc. of Mathematics
 - Cumulative GPA: 3.78
- Clements HS Aug. '16 May '20
 - GPA: 4.00

Math Courses

Abstract Algebra I/II

Honors Analysis

Honors Calculus IV/III

Honors Linear Algebra

Prog. Languages

Intimately familiar: C, Python

Familiar: JavaScript, C++,

Linux Shell, Java

Used before: C#, PHP, Go, Lua,

x86 Assembly

Learning: Rust, Haskell

Software Experience

Engineering: KiCad, FreeCAD

3D Arts: Blender, Unity

2D Arts: GIMP, Inkscape, Krita

Audio: Audacity, LMMS

Markup: LATFX, HTML & CSS

Misc. Skills

Japanese language training

Electronics, PCB design

Woodworking, welding experience

Research

Coronavirus Genetic Analysis

Summer '22 & '23

- Wrote scripts to organize DNA data from raw outputs
- Constructed phylogenetic trees using BEAST
- Worked under Dr. Andrew Kitchen, University of Iowa

Combinatorics & Graph Theory

Summer '21

- Wrote software to analyze certain properties of graphs
- Proposed novel conjecture on graph property
- Worked under Dr. Peter Blanchard, University of Iowa

Leadership

Co-president of Rice AWM

Fall '23 - Spring '24

- AWM: Association for Women in Mathematics
- Planned university events with other co-president to invite more people to the math community

Technical officer of JETS

Fall '17 – Spring '18

- JETS: Junior Engineering & Technical Society
- Participated in Science Olympiad team (see award)
- Co-coordinated statewide Science Olympiad tournament
 - * Designed & deployed live scheduling system for sponsors to view & reserve timeslots in real-time
 - * Created latency-correcting website to sync across several computers and time contestants
- Created secure account database & front-end website

Awards

Rice University Hackathon

Fall '21 & '22

- 2nd place overall in 2022 team of 4
- 3rd place in 2021 1st among "First Timers" team of 3
 - * Disability accessibility interface for motor-impaired people to navigate YouTube 🗗

Rice University Scholarship, full tuition

Spring '20

Trinity University: Tower Scholarship, full tuition

Spring '20

Science Olympiad team, 6th place nationally

Spring '17

- Designed & implemented touch-compatible user interface to simulate & control robot arm in real-time.
- Created 3D models in parametric CAD for chassis of model electric vehicle