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TECHNICAL COURSEWORK
- **Mathematics:** Applied Dynamical Systems, Topics in Abstract Algebra, Real Analysis, Statistical Inference, Linear Algebra, Applied Ordinary & Partial Differential Equations, Single & Multivariable Calculus, Advanced Classical Mechanics, Modern Physics (Stanford OHS)
- **Computer Science:** Fundamentals of Computer Systems, Blockchains and Cryptocurrencies, Accelerated Introduction to CS, AP CS A
- **Directed Reading Programs:** Graduate Linear Algebra and Functional Analysis. Official write-up: https://github.com/alizma/Spring2021_Functional_Analysis_Paper.

PROFESSIONAL EXPERIENCE

Teaching Assistant — Brown University
Abstract Algebra (Math1530) Lead TA — *May 2021 – Aug 2021*

Provided weekly feedback on problem sets and held weekly office hours for a class of 30.

Everaise Academy — Virtual
Curriculum Developer and TA — *Jun 2020 – Present*

- Official Website: everaise.org
- Composed several handouts on topics ranging from number theory to combinatorics and graded homework for 100 students in the advanced topics course.

EDUCATION

Brown University (In Progress) — Rhode Island, USA
Bs.C. in Applied Mathematics, Computer Science — *Sep 2020 – May 2024*
Advisor: Prof. Hongjie Dong

Brophy College Preparatory — Arizona, USA
High School Diploma with Distinction (Mathematics) — *Aug 2016 – May 2020*

AWARDS

USAMTS Bronze (2017, 2019), Silver (2018) Winner — Top 40 Nationally

Active competitor in USA Mathematical Talent Search.

USA National Chemistry Olympiad Semi-Finalist — Top 1000 Nationally

Competed in the premier chemistry competition for high school students in the USA.

USA Computing Olympiad Silver Winner — Top 5,000 Nationally

Active competitor in premier computing olympiad for high school students in the USA.

AP National Scholar + National Distinction — Top 1% Nationally

Awarded for high scores on 16 AP exams in high school.

PERSONAL PROJECTS

Kibibyte: Text Editor in <1 KiB — Programming

Implemented in C with VT100 syntax highlighting, Vim-like scrolling, and edit history. Portable for all POSIX-compliant systems. See more: https://github.com/alizma/kilo_text_editor.

SKILLS

Programming GoLang, Solidity, C/C++, Python, LaTeX, Bash, Markdown
Tools Vim, Git, VSCode, NMap, Linux
Languages English, Russian, Spanish (Conversational, 5 on AP)