

Shen Wei Brendan Looi

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I am a senior undergraduate in Applied Mathematics at Colorado State University. I have a passion for mathematics and programming, in the way that we can use mathematical concepts to improve and optimize the world around us in a progressively digital world.

Education

- **Colorado State University** **Fort Collins, CO**
Bachelor of Science in Mathematics, Concentration in Applied Mathematics – Computer Science *Graduating May 2021*
 - **Relevant Mathematics Coursework:** Fourier and Wavelet Analysis, Numerical Analysis, Abstract Algebra, Ordinary/Partial Differential Equations, Advanced Calculus of One Variable, Projects in Applied Mathematics
 - **Relevant Computer Science Coursework:** Software Development, Information and Coding Theory, Post-Quantum Cryptography, Mathematics of Information Security, Data Structures, Discrete Structures

Research Experience

- **Software Engineering Intern** **Fort Collins, CO**
Hewlett Packard Enterprise – NonStop Manageability Team *May 2020 – Aug 2020*
 - Improved and optimized OSM, the main application for maintaining, updating, and upgrading NonStop servers
 - Migrated critical security procedures from CLI to GUI, cutting down on time overhead and human error for end-users
 - Worked in Java, using Swing, AWT, RMI, and several internal HPE libraries
- **Programming Instructor** **Fort Collins, CO**
Tech Corps *Jul 2019 – Aug 2019*
 - Lead multiple week long summer camps aimed at Middle and Elementary School students
 - Prepared and delivered material covering programming fundamentals, theory, and applications
 - Delivered lessons and projects in Scratch, MIT App Inventor, and Python
- **Accounts Receivable Admin** **Fort Collins, CO**
Centennial Consulting Group *Jun 2019 – Sept 2019*
 - Posted payments for homeowners and organizations, prepared deposits, and processed change of ownership
 - Wrote, tested, and shared time-saving software across the company

Technical Skills

- **Programming Languages and Frameworks:** Bash, C, Matlab, Maple, C++, Java, JavaScript, Python, \LaTeX , Haskell, Android API, Sagemath
- **Mathematical Skills:**