# Samuel Woods

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## EDUCATION

**University of California San Diego**                                    **Sept. 2017 – Dec. 2021**

*Mathematics/Computer Science B.S.*

- Emphasis on data structures and algorithms
- Adept in analysis, abstract algebra, advanced calculus, and discrete math
- Programs of study in Business and Japanese

## WORK EXPERIENCE

**Cedar Bridge Group LLC**                                                **Jun. 2019 – Sept. 2019**

*Intern*

- Healthcare and software solutions
- Responsible for information gathering/presenting
- Managed client accounts and communication channels
- Corporate website editing

## SKILLS

- **Programming Languages:** Python, Java, C, C++, Haskell, Assembly (ARM), MATLAB.
- **Languages:** English (Native), Japanese (Advanced), Spanish (Basic).
- **Other:** Bash, Git, GDB, Valgrind, HTML5, CSS3, MySQL

## LINKS

- Website: https://samuelwoods.me
- GitHub: https://github.com/samuellwoods
- LinkedIn: https://linkedin.com/in/samuellwoods

## PROJECTS

- Implementing chess in Java: https://github.com/samuelwoodsl/Chess
- Designing ArrayList, LinkedList, HashTable, Deque, Queue, Stack, PriorityQueue, BinaryTree, and BinarySearchTree from scratch using generic types. Tested against their respective Java.Collections subsets.
- Randomly generated maze game in Java.
- Compression program created using Huffman Coding in C++.
- Generic graph constructor that takes in an edge list in CSV format. It can find the shortest path, connected components, and minimum connecting threshold between nodes. Used to graph HIV transmission cluster data gathered from a recent HIV-TRACE done at UCSD.
- Python webapp using Jinja2 and MySQL