Rohith Rokkam

education
Stony Brook University
B.S. Comp. Sci., Math
Honors College
GPA: 3.94
expected graduation 2019

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interests

concurrent data structures, high-performance computing, algorithm design

experience

2018 **Intern @ Sandia National Labs, Albuquerque, NM**
Contributed to parallelization facilities for PEBBL, a MPI-based C++ framework for solving branch-and-bound problems.

projects

2018 **Peer-to-peer Filesystem**
A distributed filesystem written in Python using the FUSE library, using a bootstrap server to host.

2018 **Terminal Chat Service**
A terminal chat client in C and multithreaded server in Python. Sends messages using a custom plaintext protocol.

2018 **Packet Sniffer**
A packet sniffer implemented using Python's raw sockets. Dumps packets to human-readable, hex, or pcap (Wireshark-readable) forms.

2017 **Dynamic Memory Allocation Library**
A memory allocator written in C, using a segmented free-list and first-fit allocation policy.

2017 **Shell**
A shell written in C with bash-like output redirection and job control.

2017 **Memcached Clone**
An in-memory caching service in C, implemented using a custom multithreading-safe queue and hashmap.

2016 **Navigation System**
A GPS developed in Java using data from OpenStreetMap and an XML parser. Implements Djikstra's shortest-path algorithm to calculate routes.

teaching

2018 **Teaching Assistant: Theory of Computation**
Wrote & graded homework on finite automata, formal languages, and Turing machines. Also taught as a substitute.

2017 **Teaching Assistant: Foundations of Computer Science**
Instructed 20-person recitation section on discrete math, logic, and proof techniques.