

# Rhith Rokkam

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B.S. Computer Science (Honors) and Mathematics  
Stony Brook University, Spring 2019, Summa Cum Laude (GPA: 3.92)  
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## Experience

- Software Engineering MTS, VizQL Server – Tableau (Salesforce)** **01/20 - Present**
- Propagating exception metadata across the Tableau monolith to identify common errors (current project)
  - Contributed to latency tracking for Tableau's C++/Java telemetry library
  - Created ETLs to stream and save log files to Snowflake using Apache Flink and Kafka
  - Drove backlog prioritization and work intake as team scrum-master; ran standup and Scrum meetings
  - Created Tableau and Splunk dashboards to track golden signals and secondary metrics
  - Drove visualization loads to 99.9% availability in Tableau Online by increasing monitoring maturity
  - Experience writing design documents and technical specifications for feature-level work
  - Experience debugging production issues using Splunk, Tableau, and New Relic
  - Unified and improved VizQL Server healthcheck system
- Research and Development Intern – Sandia National Laboratories** **06/18 - 08/19**
- Added a parallelization layer for a C++ branch-and-bound solver framework
  - Collaborated with researchers to design and implement new features
  - Wrote dynamic and performant MPI code for use in large computer clusters
- Teaching Assistant – Theory of Computation** **Spring 2018/19**
- Wrote and graded homework and exams on automata, formal languages, Turing machines, and complexity theory
  - Lectured the class as a substitute and held regular office hours
- Teaching Assistant – Foundations of Computer Science** **Spring 2017**
- Helped a 100+ person class learn discrete math, logic, and proofs
  - Instructed a 25-person weekly recitation section

## Selected Projects

- Peer-to-peer Filesystem** **Spring 2018**
- Wrote an Airdrop-like P2P service in Python using FUSE and a custom protocol
  - Made a multithreaded bootstrap server to host the network
- Packet Sniffer** **Spring 2018**
- Created a packet sniffer using raw network sockets in Python
  - Added output filters for protocols including TCP, UDP, IP, Ethernet, and DNS
- Dynamic Memory Allocator** **Spring 2018**
- Developed a memory allocation library in C using a segmented free-list
  - Implemented several optimizations from glibc malloc
- Bash-like Shell** **Fall 2017**
- Made a shell in C with output redirection, piping, and background job support
  - Carefully considered race conditions and handled asynchronous UNIX signals

## Organizations

- SBU Algorithms Lab** **01/19 - 05/19**
- Discussed algorithms, discrete math, and data structures (ex: Bloom filters, DFT, HyperLogLog)
- SBU Go Club – Secretary** **Fall 2017 - Spr. 2019**
- Hosted open Go tournaments with 40+ entrants; taught new players rules & strategy
- SBU Undergrad Algorithms Reading Group** **Fall 2017 - Spr. 2018**
- Presented algorithms, data structures, and solved logic puzzles of interest

## Selected Coursework

- Graduate: Algorithms (audited Master's and Ph.D. sections), Probability Theory, Algebra
- Undergraduate: Operating Systems, Linear Algebra, Network Programming, Systems Fundamentals, Theory of Computation