

# Max Knutsen

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work **Microsoft — RMS Team** 2017 -

Revamped system information collection in HCS to include atypical NUMA layouts.  
Built internal tool to recognize a servers memory layout at runtime.  
Organized the collaborative effort to refactor entry points to the VID for congruency.

**Facebook — SWE Intern** Summer 2016

Cut Namenode start by 99% by reading from cache, improving emergency response  
Migrated warm storage to more a durable, flexible dynamic configuration system  
Created testing environment for hot storage to find error handling problems

**Cougaar Software — SWE Intern** 2014 - 2016

Implemented a health monitoring system in a distributed environment  
Used Cougaar's framework to design and construct a distributed robotics framework  
Built a robot with Raspberry Pi's and Arduinos that kept water tanks from overflowing

projects **Distributed Systems with Hadoop** Spring 2016

Used Avro, Kafka, Storm, Redis to read and categorize data from Twitter garden hose

**FloatBot** Fall 2015

Used ROS, Open CV, AR.Drone to build a drone that would save a drowning person

**Real Time Artificial Intelligence** Spring 2015

Built game with AI that reacts to movement using modular action sequences

school **University of Maryland, Baltimore County** Winter 2016

BS in Computer Science with an emphasis on robotics and big data with 3.3 GPA