Max Knutsen

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work

Microsoft — Software Engineer

2017 -

Provided tooling for UEFI security assessment

Built internal tool to reorganize a VM server memory layout at runtime

Refactored attack surface of a driver to create a clear layer input validation

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

Created distributed health monitoring system designed for modular hardware systems Used Cougaar's framework to design and construct a distributed robotics framework Built a robot that balanced water levels in response to introduced leaks

projects

Distributed Systems with Hadoop

Spring 2016

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

Fall 2015 **FloatBot**

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

University of Maryland, Baltimore County school

Winter 2016

BS in Computer Science with an emphasis on systems with 3.3 GPA