MING TAI HA

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EDUCATION

Rutgers University — School of Engineering - New Brunswick, NJ 09/2015 - Present
Masters of Science in Computer Engineering
Overall GPA: 3.88

Rutgers University — School of Engineering - New Brunswick, NJ 09/2010 - 05/2014
Bachelors of Science in Material Science & Engineering — Double major in Mathematics
Overall GPA: 3.80, Summa Cum Laude

PROJECTS

NFS on AWS 03/2017 - Present
First Sysadmin project

- Manually set up NFS server on AWS instance with Redhat 7.5, and NFS client with Ubuntu 16.04
- Configured firewall enable use from hosts connected to Busch subnet of RUWireless

OS Projects - CS518 02/2016 - 04/2016
First C project

- Implemented basic functionality of pthreads and malloc (dlmalloc)
- Developed scheduler using a multi-level priority queue to schedule threads created the above pthreads library
- Developed memory manager to virtualize memory allocated to threads using the above malloc library

HealthAnalytics 09/2015 - 12/2015
First Programming Project

- Simulated state-level health statistics using Monte-Carlo methods and CDC/NIH studies with better accuracy than recorded by US Census data
- Created model to predict Cholesterol Levels, Blood Pressure, and Heart Rate of users (75% accurate within one STDEV)
- Managed development of backend components and contributions to Product Requirements Document

RESEARCH EXPERIENCE

RADICAL Lab - Rutgers University 07/2015 - Present
Graduate Researcher

- Characterized task placement and resource (HPC, Grid) selection strategies of workflow systems
- Extended AIMES middleware to support execution on OSG
- Incorporated pilot job functionalities to RNA-sequencing tool to support scalable execution on HPCs & Clouds
- Investigated possible task placement strategies that minimize time-to-completion of workloads executing across several XSEDE supercomputers

WORK EXPERIENCE

Ericsson 06/2014 - 06/2015
Radio Frequency Engineering I

- Improved Network KPIs by up to 20% in AT&T LTE Carolina Market
- Proposed improvements to solution architects to reduce VoLTE Drop Call Rate for T-Mobile market
- Performed data analysis to develop new techniques to improve VoLTE network quality

SKILLS & INTERESTS

Languages & Tools Python, C/C++, MATLAB, BASH, Git, Linux
Interests Distributed Systems, Molecular Dynamics, Cooking, Music