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, Thesis Option
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

Nutritional AI 03/2017 - 05/2017

- Developed a suite of composable Slackbots to recommend recipes, purchase ingredients, and plan routes
- Integrated API.ai with Slackbots to enable natural language conversation
- Developed a custom machine learning algorithm to account for variety in recipe recommended to users
- Implemented a Flask application that exposed endpoints for our services to interact with the recipes database

OS Projects - CS518 02/2016 - 04/2016

- Implemented basic functionality of pthreads and malloc (dlmalloc) in C
- 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

- 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

WORK EXPERIENCE

Open Systems Solutions 07/2017 - Present
Student Systems Programmer

- Designed and implemented a URL shortener using Flask for the Rutgers Community
- Created and deployed Docker containers to host Wordpress for Rutgers faculty and staff
- Build RPM software packages for Rutgers Community

RESEARCH EXPERIENCE

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

- Developed a model to estimate task execution times on unknown resources using information from known resources
- Developed algorithms to allows users to consider several types of resources (HPC, Grid, Cloud) and identify which are best to execute their workloads
- Incorporated pilot job functionalities to RNA-sequencing tool to support scalable execution on HPCs & Clouds

SKILLS & INTERESTS

Languages & Tools Python, C/C++, MongoDB, MySQL, Javascript, HTML/CSS, Git, BASH
Interests Cooking, Music, Traveling, Civilization V