MING TAI HA

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Website: https://www.mingtaiha.com/ — Github: https://github.com/mingtaiha

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
https://github.com/mingtaiha/n.ai
· 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
https://github.com/mingtaiha/cs518_os_projects
· 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
https://github.com/mingtaiha/HealthAnalytics
· 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 and integration of backend components
· Created a 100+ page Product Requirements Document and presentations with team

WORK EXPERIENCE

Open Systems Solutions   07/2017 - Present
Student Systems Programmer
· Design and deploy a URL shortener with team using Flask, MySQL, Git/Phabricator for the Rutgers Community
· Create and deploy Docker containers to host Wordpress on NGINX for Rutgers faculty and staff
· Collaborate with team to build RPM pacakges and open source software used by 70k faculty & students
· Diagnose and resolve system/application on *NIX servers in the Koji build enviornment, provisioned by Salt
· Write and maintain scripts to automate system administration tasks on *NIX servers

RESEARCH EXPERIENCE

RADICAL Lab - Rutgers University   07/2015 - Present
Graduate Researcher
· Developed a model to estimate task execution times on unknown resources
· Developed a method which enables users to select resources (HPC, HTC, Cloud) over which to distribute a workload
· Extended AIMES middleware to support execution on OSG
· Incorporated pilot job functionalities to RNA-sequencing tool to support scalable execution on HPCs & Clouds

SKILLS & INTERESTS

Skills   Python, C/C++, JavaScript, HTML/CSS, Bash, Docker, Git, Phabricator, MongoDB, MySQL
Interests   Cooking, Music, Traveling, Civilization V