MING TAI HA

6 Appletree Court, Marlboro, NJ 07746 — 908-839-0473 — ming.tai.ha@gmail.com 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

- \cdot 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

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
- \cdot 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 environment, 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