

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

Master of Science in Computer Engineering, Thesis Option

Overall GPA: 3.88

Rutgers University — School of Engineering - New Brunswick, NJ 09/2010 - 05/2014

Bachelor of Science in Material Science & Engineering — Double major in Mathematics

Overall GPA: 3.80, Summa Cum Laude

WORK EXPERIENCE

Open Systems Solutions 07/2017 - Present

Student Systems Programmer

- Developed *Shrunk: Official Rutgers URL Shortener* (<https://github.com/oss/shrunk>) for Rutgers faculty and staff
 - Design and create time-efficient methods to search and paginate large numbers of URLs and users
 - Implement and integrate frontend and backend components in using Flask and AngularJS frameworks to support link re-routing, account management, data collection and presentation, and searching
 - Deploy web application on production servers using Salt
 - Uses Python, Flask, JavaScript, AngularJS, MongoDB, Git/Phabricator, Salt, Apache
- Collaborate with team to build RPM packages and open source software used by 70k faculty & students
- Create and deploy Docker containers to host Wordpress on NGINX for Rutgers faculty and staff
- 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

- Proposed 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 execute a workload
- Extended AIMES middleware to support execution on OSG
- Incorporated pilot job functionalities to RNA-sequencing tool to support scalable execution on HPCs & Amazon EC2

PROJECTS

Nutritional AI 03/2017 - 05/2017

<https://github.com/mingtaiha/n.ai>

- Created a workflow from composable Slackbots that 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

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 the development and integration of datastore and health model components
- Write a 100+ page Product Requirements Document and presentations with team

SKILLS & INTERESTS

Languages Python, C/C++, HTML/CSS, JavaScript, Bash

Tools Linux, Flask, Docker, Salt, Git, Phabricator, MongoDB, MySQL, Apache, NGINX

Interests Cooking, Music, Traveling