THOMAS HUANG

CLASS OF 2020

CONTACT

Campus Address: 202 South River Road, Apt. 22, West Lafayette, IN, 47906
Permanent Address: 1198 Quail Creek Circle, San Jose, CA, 95120
t: 408 693 0112 | **e:** huang836@purdue.edu | linkedin.com/in/thomas-huang | github.com/thomasjhuang

EDUCATION

Purdue University, West Lafayette, Indiana **August 2015 - Present**
B.S. in Computer Science and Mathematics
Relevant Coursework includes: Data Structures and Algorithms; Analysis of Algorithms; Discrete Mathematics; Computer Architecture; Systems Programming; Data Mining; Artificial Intelligence.

EXPERIENCE

Genesys, Indianapolis, Indiana **May 2018 - Present**
Software Engineering Intern

- Developed a C++ library for Google Dialogflow to integrate into PureCloud service
- Created a REST API for internal text to speech engine in C++
- Refactoring components (~5k lines) of large internal C++ codebase

Data Prophet, Cape Town, South Africa **June 2017 - August 2017**
Software Engineering Intern (Machine Learning)

- Individually designed and applied Tensorflow's object detection API over client video data in Python
- Built image and text web scraper using Scrapy (Python scraping tool)
- Tested and trained software using Google Cloud Platform and AWS.
- Project delivery resulted in 1yr contract with major corporate client.

Center for Science of Information, West Lafayette, Indiana **August 2016 - December 2016**
Undergraduate Researcher

- Researched and developed scalable greedy graph coloring heuristics for parallel computing.
- Applied knowledge by learning new concepts from various fields: linear algebra, parallel computing, and graph theory.

PROJECTS

fulqrum
A statistical insights web application which aggregates and analyzes publically accessible data on sites like Yelp and Google Reviews. I implemented all of the frontend, parts of our Node.js server, and integrated the Google Cloud Platform - NLP API.

Facebook bAbI RNN Challenge
A proof-of-concept recursive neural network built in Python 3 with Keras and sci-kit learn, which raches high validation scores on the Facebook bAbI task 1 and task 2 (~99% validation accuracy).

Chappelle Bot
A character-level LSTM (long short term memory network) built in Python with Keras, which generates jokes which are trained on a large corpus of approximately 200k English jokes scraped from various sources.

Weather App
A web application which uses the DarkSky and Google Maps API to display weather information about your local area. Users can create accounts and login to see their weather information. Built with Node.js and MongoDB.

SKILLS

Languages: Python, C++, Java, C, Javascript, SQL

Libraries/Frameworks: Node.js, MongoDB, Bootstrap, Tensorflow, Keras, spaCy, scikit-learn