

# THOMAS HUANG

C L A S S   O F   2 0 1 9

## CONTACT

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## EDUCATION

**Purdue University, West Lafayette, Indiana**

**August 2015 - Present**

B.S. in Computer Science and Mathematics

Relevant Coursework: Real Analysis; Advanced Linear Algebra; Analysis of Algorithms; Relational Databases; Discrete Mathematics; Web Information Search; Systems Programming; Data Mining; Artificial Intelligence

## EXPERIENCE

**Genesys, Indianapolis, Indiana**

**May 2018 – December 2018**

*C++ Software Engineering Intern*

- Developed a C++ library for Google Dialogflow to allow clients to create and use Dialogflow bots built into Genesys call center infrastructure.
- Developed a REST API for internal text-to-speech engine in C++ to handle ssml or plaintext requests for .wav file speech responses.
- Developed integration tests in Boost.

**Data Prophet, Cape Town, South Africa**

**June 2017 - August 2017**

*Machine Learning Intern*

- 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, Purdue University**

**August 2016 - December 2016**

*Channels Scholar - Undergraduate Researcher*

- NSF REU funded scholarship to do research with Sloan Scholar and Associate Professor of CS at Purdue, Dr. David Gleich
- 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

### **fulcrum**

A statistical insights web application, which aggregates and analyzes publically accessible data on sites like Yelp and Google Reviews. The application can show positive/negative keywords, rating trends, competitor analysis, and more. 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 reaches 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 that 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, Tensorflow, Keras, spaCy, scikit-learn