

LINH T.D. TANG

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EDUCATION

Grinnell College, Grinnell, IA

Expected May 2022

Major: Computer Science and Economics

Major GPA: 4.00

Relevant Courses: Object-Oriented Programming & Algorithms (Java), Imperative Programming & Data Structures (C/C++), Data Science (R), Operating System and Parallel Algorithm (C/C++), Linear Algebra, Discrete Mathematics, Econometrics, Applied Statistics, Functional Programming (Scheme).

Award: Summer Research Scholarship for Directed Research by Grinnell College (2019).

First Prize - Student Poster Showcase, Consortium for Computing Sciences in College Midwest

Harvard Business School Online Credential of Readiness

May - Aug 2019

Courses: Financial Accounting, Business Analytics, Economics for Managers

EXPERIENCES

Summer Undergraduate Research

May 2019 – Dec 2019

Recommender System Lab

Grinnell, IA

- Generated a Twitter users' music dataset with Pandas from two datasets: Million Music Tweets and Musicbrainz, including users' listening history, timestamp, location, tweeting pattern, artists and artists information (gender, type, birth, location).
- Built a context-aware hybrid model in Python that utilizes both content-based and collaborative filtering (CF) paradigm. The model uses KDTree for neighborhood clustering and alternating least square method to factorize users similarity matrices, recognizing an increase of 6.6% accuracy rate (F-1 score) compared to the baseline CF model.
- Published paper as the first author to 33rd FLAIRS (Florida Artificial Intelligence Research Society) conference.

Computer Science Workshop for Undergraduate Research

Oct 2019

Carnegie Mellon University

Pittsburgh, PA

- Collaborated with 5 students from different universities in 3-days research workshop that focus on applying HCI and UX design to build a smartwatch app to help with children's behavioral self-monitoring. Created user flow diagram and a [prototype](#) of the app on AppleWatch's frame using Figma.

Founder, Director & Web Developer

Feb 2017 – Present

Science Camp Hanoi

Hanoi, Vietnam

- Developed and maintained an [informational website](#) using Bootstrap, hosted with Google Firebase.
- Founded the first non-profit summer camp in Hanoi that focuses solely on science activities for 140 children, managed daily activities, recruited & trained 80 staff.

PROJECTS

Predicting Success of Second-Generation Immigrants in the US

Dec 2019

- Built a regression model in R using least absolute shrinkage and selection operator (LASSO) to determine the factors and predict the success index of second-generation immigrants in the US among 652 variables in the dataset of 5262 observations. Final research paper under review of USCLAP competition.

US Colleges Interactive Map

Oct 2019

- Built an [interactive map](#) of undergraduate institutions, published on RShiny platform that assists users in college application process with most updated information regarding the school's admission, geography, education quality, student body, etc.

Student Programming Contest

October 2019

Consortium for Computing Sciences in College Midwest 2019

Naperville, IL

- Led a team of 3 students to practice and compete in the contest with 22 other teams from Midwest region.

Text Summary Generator

Apr 2019 – May 2019

- Developed an app to summarize academic papers using the Jaccard similarity algorithm and produce keywords visualization with a desktop GUI in Scheme.

LEADERSHIP AND CAMPUS INVOLVEMENT

Vice Chair

May 2019 – Present

Association for Computing Machinery - Grinnell Chapter

Grinnell, IA

- Managed the marketing and recruitment aiming towards diversity and inclusion.

Multicultural Leadership Intern

Jan 2019 - Present

Intercultural Affair Office, Grinnell College

Grinnell, IA

- Assisted in coordinating cultural events, facilitated 3 campus-wide events per semester

SKILLS

Languages: Python, C/C++, Java, R, LaTeX, Scheme, HTML/CSS

Tools/Packages: Pandas, Git, NumPy, RShiny, Sklearn, Figma, NLTK, Caret, Stata, Linux