

# BILL T. TRAN

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Programming Language Proficiency: Python, Java, C, SQL, R

Version Control Proficiency: Git, GitHub

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## EDUCATION

SEP 2019 – MAY 2023

**Connecticut College**, Mathematics and Computer Science Double Majors

- Cumulative GPA: 3.667 / 4.0
- Current Computer Science Major GPA: 4.0 / 4.0
- Current Mathematics Major GPA: 4.0 / 4.0

SEP 2016 – MAY 2019

**Hanoi – Amsterdam High School for the Gifted**, Physics Specialization

- Cumulative GPA: 9.5 / 10.0

## HONORS AND AWARDS

- Connecticut College Annual Math Contest Winner (2019)
- Second Prize in Hanoi English Regional Olympiad (2018)
- Second Prize in Hanoi Physics Regional Academic Competition (2016)
- First Prize in Hanoi Physics Regional Academic Competition (2016)

## RELEVANT EXPERIENCE

**SOFTWARE ENGINEERING INTERN**, RABILOO CO., LTD (DEC 2019 – JAN 2020)

- Interned at a rising technology start-up in Vietnam focusing on providing technology solutions with headquarters in Vietnam and Japan
- Learned and received hand-on data analysis experience with Machine Learning
- Analyzed the company's profit data using Machine Learning models and libraries on Jupyter Notebook
- Worked individually on three projects on Natural Language Process, including:
  - Text Classification: created a supervised-learning Machine Learning model to classify and label the category of 10,000 articles, including Sports, Politics, Market, ...
  - Comment Labelling: used supervised learning to categorize 3,000 data points of a client hotel ratings into areas such as amenities, service, location... and label them as positive or negative
  - Comment Sentiment Analysis: analyzed whether a product comment is negative or positive using Python and tools such as *sklearn*, *numpy*, and *pandas*.

**MATH TUTOR**, MATH HELP CENTER, CONNECTICUT COLLEGE (JAN 2019 – PRESENT)

- Assisted students from all Calculus levels and Linear Algebra by answering their questions on homework, lessons, and tests
- Worked three days a week with around 5 college students daily
- Explained and gave examples on difficult and abstract concepts using simplified and visual methods
- Graded students' homework as requested by mathematics professors

### **TEACHING ASSISTANT, THE IELTS WORKSHOP (JULY 2017 – JULY 2019)**

- Tested and bolstered students' IELTS knowledge based on a composed curriculum
- Enhanced teacher-student connection, explained unclear problems and acted as students' learning partner in class
- Worked as IELTS Speaking examiner and students' speaking partner, asked students questions and made comments on their grammar, vocabulary and band scores in 3 speaking classes weekly with about 10 students each class

### **MATH TUTOR, BEDROCK EDUCATIONAL CONSULTANTS (APRIL 2019 – AUGUST 2019)**

- Trained high school students to prepare for the SAT Subject Test in Mathematics II
- Constructed learning schedule and class materials
- Informed students' parents of their learning process on a weekly basis
- Helped 100% of the students to achieve the maximum 800 score on the official SAT Mathematics Subject Test

### **VICE PRESIDENT, HANOI FOOD RESCUE VOLUNTEER ORGANIZATION (SEP 2016 - MAY 2019)**

- Divided over 100 volunteers into groups to collect unused and edible food from restaurants and bring to poor people in Hanoi and checked their progress daily.
- Took responsibility and resolved travel problems volunteers encountered every day
- Increased the number of volunteers from 40 to over 100 people with over 4,000 meals delivered in a year
- Successfully negotiated and added 2 more restaurants to our chain, resulting in a total of 5 member restaurants
- Got invited as the Special Guest of talk show "Daily News" by Vietnam Television (VTV), the national television broadcaster of Vietnam

### **RELEVANT COURSES**

- Harvard CS50
- R Programming (Johns Hopkins University)
- The Data Scientist's Toolbox (Johns Hopkins University)
- Discrete Mathematics
- Multi-variables Calculus
- Data Structures
- Computer Organization

### **PROJECTS**

#### **COMMENT SENTIMENT CLASSIFICATION, Rabiloo Internship 2019**

- Wrote a supervised machine learning program that classifies whether a product comment is negative or positive using Python and packages such as *sklearn*, *numpy*, and *pandas*.
- Processed and trained a model from a database of 16,000 comments
- Took responsibility for all stages of the project, from data preprocessing, training to testing, evaluating, and predicting
- Achieved a model accuracy rate of 85% and ranked 15th in a nationwide contest on Sentiment Analysis held on aivivn.com, the biggest Machine Learning forum in Vietnam

#### **FLAPPY BIRD REMAKE, Connecticut College COM110**

- Led a team of 3 students to re-create the famous game Flappy Bird as the final project for class COM110
- Finished the game in 3 days with little resources, no external libraries, and limited game programming experience using Python
- Received recognition as one of the top projects of the class
- Had lunch and discussed with Mr. Dong Nguyen, the creator of the original Flappy Bird, about the future of gaming after our game impressed him