

# DUC TRI TRAN (BILL TRAN)

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## EDUCATION

**Connecticut College**, New London, CT

B.A expected December 2023

- Majors: Computer Science and Mathematics
- Computer Science Major GPA: 4.0
- Mathematics Major GPA: 4.0
- Relevant Courses: Data Structures, Computer Organization, Discrete Mathematics, Multi-variables Calculus
- Awards: Julia Well Bowers Prize for Distinction in Mathematics, College Annual Math Contest Winner

## TECHNICAL SKILLS

- Programming Languages: Python, SQL, Java, HTML & CSS
- Operating Systems: Windows, MacOS, Ubuntu
- Version Control Proficiency: Git, GitHub
- Frameworks: Flask
- Relational databases: MySQL, Sqlite3, PostgreSQL
- NoSQL databases: Memcached, Redis

## WORK EXPERIENCE

**Software Engineer**, Got It AI

April 2020 – Present

- **Languages and Technologies:** Python, Flask, REST APIs, MySQL, Memcached, Redis, SQLAlchemy, Marshmallow
- Developed backend microservices for Got-It's product [Querychat AI](#) and [PhotoStudy](#), serving 1M+ users
- Designed codebase and developed versions of Querychat AI to target both enterprise and individual customers
- Increased Querychat AI's backend code coverage by 6% and supported CI/CD testing by writing tests with Pytest

**Software Engineer**, STEAM for Vietnam

June 2020 – August 2020

- **Languages and Technologies:** Python, Django, HTML, CSS, Docker, Kubernetes
- Developed, scaled, and deployed [a MOOC platform](#) for [STEAM for Vietnam](#) to deliver free Scratch coding courses to Vietnamese students based on Open edX open-source codebase, serving 7,000 concurrent users
- Customized the platform's theme to achieve user-friendly UI/UX

**Research Assistant**, Connecticut College

April 2020 – August 2020

- **Languages and Technologies:** Ruby, Ruby on Rails, HTML, CSS, IBM Watson Tone Analyzer
- Worked with professor William Tarimo on developing new features on [Discovery Teaching](#), a web application designed to support interactive teaching and learning
- Co-authored a research paper on the impact of integrating Sentimental Feedback into classroom activities by analyzing data from two Computer Science courses using IBM Watson Tone Analyzer

**Software Engineering Intern**, Rabiloo Co., LTD

December 2019 – January 2020

- **Languages and Technologies:** Python, sklearn, numpy, pandas
- Developed a Machine Learning model to classify 10,000 online articles with 95% accuracy
- Categorized 3,000 records of hotel ratings into areas like amenities, service, location, etc. and label their sentiments
- Analyzed sentiment of online comments on the company's product for data-driven customer support

**Math Tutor**, Math Help Center, Connecticut College

January 2020 – Present

- Assisted students from all Mathematics classes on their homework, lessons, and tests

## PROJECTS

**Comment Sentiment Classification**, a supervised machine learning program classifying whether a product comment is negative or positive in **Python** using sklearn, numpy, and pandas.

- Processed and trained a model from a database of 16,000 comments.
- Achieved a model accuracy rate of 85% and ranked 15th in a nationwide contest on Sentiment Analysis

**Flappy Bird**

- Led a team of 3 to make "Flappy Bird" in **Python** as the final project for class 'Introduction to Computer Science'.
- Recognized as the top project of the class.