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
- Skills: Backend web development (Python, Flask, SQLAlchemy, MySQL, Memcached, Redis, Marshmallow, Pytest)

WORK EXPERIENCE

Software Engineer, Got-It AI — August 2020 – Present
Software Engineering Intern — April 2020 – August 2020

- Developed backend system for Got-It's product Querychat AI and PhotoStudy by creating REST APIs with Flask, MySQL, Memcached, and SQLAlchemy, serving 1M+ users
- Designed code structure and supported the development of upgraded versions of Querychat AI to target both enterprise and individual customers
- Wrote tests for Querychat AI's APIs using Pytest to resolve technical debt and increased code coverage by 6%
- Converted backend code of PhotoStudy from PHP to Python using FastAPI

Software Engineer, STEAM for Vietnam — June 2020 – August 2020

- Developed, scaled, and deployed with Kubernetes 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 using HTML & CSS to achieve more user-friendly UI/UX
- Supported lecturers on delivering course materials and other technical issues on the platform

Research Assistant, Connecticut College — April 2020 – August 2020

- Worked with professor William Tarimo on developing new features on Discovery Teaching, a web application designed to support interactive and evidence-based teaching and learning in the classroom using Ruby on Rails
- Co-authored a research paper assessing the impact of integrating Sentimental Feedback into classroom activities by analyzing data from two Computer Science courses in the Spring 2019 semester using IBM Watson Tone Analyzer

Software Engineering Intern, Rabiloo Co., LTD — December 2019 – January 2020

- Developed a Machine Learning model to classify 10,000 online articles in Python with sklearn, numpy, and pandas
- Categorized 3,000 records of hotel ratings into areas like amenities, service, location, etc. and label their sentiments
- Analyzed sentiment of online comments on a 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 held on aivivn.com, the biggest Machine Learning forum in Vietnam.

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.