DUC TRI TRAN (BILL TRAN)

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EDUCATION

Connecticut College, New London, CT — B.A expected May 2024

- 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, Ruby, HTML & CSS
- Operating Systems: Windows, MacOS, Ubuntu
- Version Control Proficiency: Git, GitHub
- Frameworks: Flask, Django, Ruby on Rails
- Relational databases: MySQL, Sqlite3, PostgreSQL
- NoSQL databases: Memcached, Redis, Firebase Realtime Database

WORK EXPERIENCE

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

- **Languages and Technologies:** Python, Flask, MySQL, Memcached, Redis, SQLAlchemy, Marshmallow
- Developed backend microservices for Got-It's product Querychat AI using REST architecture, covering user/service authentication, database optimization, and API logic
- Built a desktop application that detects and censors sensitive information in chat logs with 90% accuracy using Spacy model and Python GUI toolkit
- Increased Querychat AI's backend code coverage by 15% with Pytest and supported CI/CD testing using Travis CI

Software Engineer, STEAM for Vietnam — June 2020 – September 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
- Developed new features on Discovery Teaching, a web application designed to support interactive teaching and learning, with professor William Tarimo
- Co-authored and published a research paper on potentials of integrating Sentimental Feedback into classroom activities by analyzing data from 3 Computer Science courses using IBM Watson Tone Analyzer

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

- **Languages and Technologies:** Python, Jupyter Notebook, 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

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 90% and ranked 15th in a nationwide contest on Sentiment Analysis

PUBLICATIONS

- W. Tarimo, B. Tran, and K. Yoezer. "Uncovering the Nature and Potential of Affective Feedback in Interactive Teaching and Learning". Proceedings of 2020 ICERI International Education Conference.