

# 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
- **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
- **Certificates:** AWS Certified Solutions Architect – Associate

**Major GPA: 4.0**

## TECHNICAL SKILLS

- **Programming Languages:** Python, Java, Ruby, SQL, HTML/CSS
- **Frameworks:** Flask, Django, Ruby on Rails
- **Virtualization/Cloud:** AWS, Docker, Kubernetes
- **Version Control:** Git, GitHub
- **Relational Databases:** MySQL, Sqlite3, PostgreSQL
- **NoSQL Databases:** Memcached, Redis
- **OS Platforms:** MacOS, Windows, Linux

## WORK EXPERIENCES

### **Software Engineer, Got It AI**

April 2020 – April 2021

*Languages and Technologies:* Python, Flask, MySQL, Memcached, Redis, SQLAlchemy, EventBus

- Developed backend for [Conversational AI](#) product using microservice architecture and RESTful APIs, covering user & inter-service authentication, database & cache optimization, and API design
- Improved Conversational AI's backend code coverage by 15% with Pytest and supported CI/CD with Travis CI
- Built a desktop application to censor sensitive information in chat logs with 90% accuracy using Spacy model

### **Software Engineer, STEAM for Vietnam**

June 2020 – September 2020

*Languages and Technologies:* Python, Django, HTML/CSS, Docker, Kubernetes, DigitalOcean

- Developed and launched [a MOOC platform](#) to deliver free 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

- Designed and implemented new features on [Discovery Teaching](#), an application to support interactive teaching and learning, under professor William Tarimo
- Co-authored a [research paper](#) on potentials of sentiment analysis in education by analyzing data from 3 Computer Science courses

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

December 2019 – January 2020

*Languages and Technologies:* Python, Jupyter Notebook, sklearn, numpy, pandas

- Trained a Machine Learning model to categorize 10,000 online articles with 95% accuracy
- Analyzed sentiment of online comments on the company's product for data-driven customer support

## PROJECTS

### **[Comment Sentiment Detector](#)**

*Languages and Technologies:* Python, Flask, Memcached, sklearn, numpy, pandas, Docker, Travis CI, Coveralls, AWS

- Built a model to label sentiments of comments from 16,000 text records and deployed as a web application
- Achieved a model accuracy of 90% and ranked 15th in a nationwide contest on Sentiment Analysis

## PUBLICATIONS

William Tarimo, Bill Tran, and Karma Yoezer: **Uncovering the Nature and Potential of Affective Feedback in Interactive Teaching and Learning**, Proc. International Education Conference (ICERI), 2020.