

DUC TRAN

+1 (959) 201-0846 | trantriducs@gmail.com | [Website](#) | [LinkedIn](#) | [GitHub](#) | [Medium](#)

TECHNICAL SKILLS

Languages: Python (Proficient), SQL, Java, Ruby, MATLAB (Intermediate), JavaScript, HTML, CSS (Familiar)
Frameworks: Flask, Django, Ruby on Rails
Virtualization/Cloud: AWS, Docker, Kubernetes
Databases: MySQL, SQLite3, PostgreSQL, Redis, Memcached
Certificates: AWS Certified Solutions Architect – Associate

EXPERIENCE

- Software Engineer** Apr. 2020 – Apr. 2021
Got It AI Hanoi, Vietnam
- **Technologies:** Python, Flask, MySQL, Memcached, Redis, SQLAlchemy, Elastic Stack, AWS
 - Developed backend for Conversational AI product using microservice architecture and RESTful API, covering user & inter-service authentication, database & cache monitoring, and logic design
 - Built a desktop application to censor sensitive information in chat logs with 90% accuracy using Spacy model
 - Improved Conversational AI's backend code coverage by 15% with Pytest and supported CI/CD with Travis CI
- Software Engineer** Jun. 2020 – Sep. 2020
STEAM for Vietnam Hanoi, Vietnam
- **Technologies:** Python, Django, Docker, Kubernetes, DigitalOcean
 - Developed and launched a MOOC platform to deliver free coding courses to Vietnamese students using Open edX open-source codebase, serving 7,000 concurrent users
- Research Assistant** Apr. 2020 – Aug. 2020
Connecticut College New London, CT
- **Technologies:** Ruby on Rails, PostgreSQL, IBM Watson Tone Analyzer, Heroku
 - Implemented new features on Discovery Teaching, a web application to support interactive teaching and learning
 - Co-authored a research paper on the application of sentiment analysis in education with professor William Tarimo by analyzing data from 3 Computer Science courses
- Software Engineer Intern** Dec. 2019 – Jan. 2020
Rabiloo Hanoi, Vietnam
- **Technologies:** Python, Jupyter Notebook, sklearn, numpy, pandas
 - Trained a Machine Learning model to categorize 10,000 online articles with 90% accuracy

PROJECTS

Comment Sentiment Detector

- **Technologies:** Python, Flask, Memcached, sklearn, numpy, pandas, Docker, Travis CI, Coveralls, AWS
- Built a model to predict sentiment of comments from 16,000 text records and deployed as a web application

DSPlot

- **Technologies:** Python, Graphviz, Poetry, Travis CI, Coveralls, PyPi
- Wrote and released a Python library to visualize tree, graph, and matrix data structures with simple input format

PUBLICATIONS

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

EDUCATION

- Connecticut College** New London, CT
Computer Science and Mathematics B.A expected May 2024
- Major GPA: 4.0
 - Relevant Courses: Data Structures, Algorithms, Computer Organization, Computer Vision, Linear Algebra, Discrete Mathematics, Multi-variables Calculus
 - Awards: Julia Well Bowers Prize for Distinction in Mathematics, Dean's High Honors