

## TRAM (JESSICA) NGUYEN

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### EDUCATION

#### Boston University

Bachelor of Arts, Computer Science

Boston, MA

May 2026

- **Relevant Coursework:** AI/ML Principles, Data Structures & Algorithms, Computer Networks & Systems, Web Development, Database Management, Probability, Linear Algebra, Discrete Maths.

### EXPERIENCE

#### BITLab, Boston University

Research Assistant

Boston, MA

Jun 2025 – Present

- Reproducing and implementing core methods from cutting-edge research on **LLM reasoning vs memorization**, aligned with recent findings in LLM evaluation and robustness.
- Developing modular evaluation pipelines using **Python**, **PyTorch**, and **Hugging Face Transformers** to analyze reasoning behavior in large-scale language models.

#### Boston University Department of Computer Science

Teaching Assistant, CS237 (Probability in Computing)

Boston, MA

Sep 2023 - Present

- Facilitate weekly discussion sections and office hours to support **100+** students in applying probabilistic methods to computer science problems.
- Collaborate with professor and faculty team to design and improve course materials covering discrete math, stochastic processes, and probabilistic algorithms.

#### FPT Software Ho Chi Minh

Software Engineer Intern

Ho Chi Minh City, Vietnam

Jun 2024 - Aug 2024

- Developed a full-stack employee evaluation web app using **React.js**, **Django**, and **RESTful APIs** in an **Agile** development environment with biweekly sprints and team standups.
- Containerized backend services using **Docker** to streamline local development and ensure consistent deployment across staging and production.
- Built and tested scalable backend APIs with **Django REST Framework**; leveraged Postman and unit tests to ensure **>90%** test coverage and reliability.

#### GMD Protocol

Software Engineer Intern

Ho Chi Minh City, Vietnam

Jun 2023 - Aug 2023

- Constructed an automated hourly news updates **Telegram chatbot** with Python and API integration.
- Collaborated in developing and deploying **Solidity** smart contracts for secure and efficient token exchanges, enabling seamless blockchain transactions.

### PROJECTS

#### Language Detection with BERT | [Github: https://github.com/juzieeheyhey/language-detection.git](https://github.com/juzieeheyhey/language-detection.git)

Jun 2025

- Fine-tuned a pre-trained **BERT** multilingual model for language identification across **70+** languages using the Language Identification Dataset (PapLuca HF dataset).
- Built an end-to-end web application with a **FastAPI** backend and **React** frontend to allow users to detect language of any input text.

#### Personal Website | [Live: https://jessica-nguyen-personal-website.vercel.app/](https://jessica-nguyen-personal-website.vercel.app/)

May 2025

- Designed and developed a responsive personal website using **React.js**, **Tailwind CSS**, and **Vite**, featuring interactive UI elements and animated hero sections.

#### Alzheimer's Diagnosis Prediction | [Github: https://github.com/juzieeheyhey/alzheimers\\_classification.git](https://github.com/juzieeheyhey/alzheimers_classification.git)

Jan 2025

- Built a classification model to predict Alzheimer's diagnosis using Logistic Regression, achieving 70% accuracy, and analyzed performance using a confusion matrix and classification report.
- Utilized Python libraries (pandas, scikit-learn, matplotlib, seaborn) for data analysis, visualization, and modeling.

#### FoodByte Web App | [Github: https://github.com/juzieeheyhey/FoodByte.git](https://github.com/juzieeheyhey/FoodByte.git)

Apr 2024 - May 2024

- Developed a web app with ReactJS and Firebase, integrating Google Maps API and a Food API to provide personalized, location-based suggestions based on user preferences and nearby grocery stores.

### SKILLS

- Programming: Python | Java | JavaScript | TypeScript | C/C++ | SQL | OCaml
- Frameworks/Libraries: PyTorch | Hugging Face Transformers | scikit-learn | React.js | FastAPI | Django | Express.js | Pandas | NumPy.
- Tools/ Platforms: Vite | Docker | Git | Postman | Firebase | Jupyter | Vercel.
- Languages: Vietnamese (Native), English (Fluent), Mandarin (Intermediate)