Jack V. Le

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Education

University of Texas at Dallas, Richardson, TX, United States — August 2022-Present
Bachelor of Science in Computer Science with Honours — Graduation: Dec 2026
Minors: Mathematics and Political Science
GPA: overall 3.96/4.0; CS-only 3.96/4.0
Honours: The Honor Society of Phi Kappa Phi, Collegium V Honors

Publications

J. V. Le, Rebecca Gelles, Catherine Aiken, and Katherine Quinn. Extreme Summarization of Worldwide Scientific and Patent Document Clusters for Landscape Analysis Submitted to Scientometrics.

J. V. Le, Anh Nguyen, and Tien Nguyen. Do Machines Struggle Where Humans Do? LLM and Human Comprehension of Obfuscated Code Submitted to Automated Security Engineering (ASE).

J. V. Le, Anh Nguyen, and Tien Nguyen. Model Understanding of Obfuscated Code Submitted for review.

K. Tanaka Ishii, and **J. V. Le**. *Code as Embedding as AI.* Submitted to Minds and Machines.

Presentations

Head Shape Analysis Using Custom Feature Extraction. UT Dallas Undergraduate Research Scholars Awards Symposium, 2025.

Evaluating Large Language Models in Scientific Research: Practical Applications and Challenges. UT Dallas Summer Platform for Undergraduate Students, 2024.

Coding Semantics: Sentiment Analysis for Movie Reviews. [Co-presented]. Association for Computing Machinery UT Dallas Research Conference, 2023.

Research Experience

Undergraduate Researcher with Dr. Tien Nguyen — Present
Worked on *Attention Reallocation for LLMs in Software Engineering* project.

Intern Researcher at SprintML, CISPA Hemholtz Center — Summer 2026
Incoming DAAD RISE intern.

Research Assistant with Dr. Tanaka-Ishii Kumiko — Fall 2024 - Summer 2025
Worked on *Recurrence Quantification Analysis of Frontier AI Models* project.

- Collaborating with Dr. Tanaka-Ishii to explore patterns in language dimensions using advanced mathematical techniques like correlation dimension and recurrence quantification analysis.

Undergraduate Researcher with Dr. Ovidiu Daescu — Spring 2024 - Present
Worked on *Computer Vision and Feature Selection* project.

- Innovating new metrics and methods for feature extraction and selection to enhance model precision in computer vision research under Dr. Daescu, specifically focused on identifying cranial deformities.
- Created and defined key metrics such as aspect ratio, symmetry, and convexity from segmentation masks to differentiate head shapes, improving the model's ability to classify cranial abnormalities.
- Expanding the dataset by generating synthetic images using Generative Adversarial Networks (GANs) to introduce more variations and improve model robustness in real-world scenarios.

Research Intern with Hsu Lab — Summer 2024
Worked on *Machine Learning Applications in Materials Science* project.

- Collaborated with Dr. Hsu to apply Large Language Models (LLMs) and machine learning techniques to complex Materials Science experiments.
- Focused on applications such as image segmentation and Bayesian inference, addressing intricate challenges in materials science research.
- Developed custom segmentation algorithms to process images, allowing precise measurement of grain areas and chemical line widths, overcoming challenges posed by traditional methods.

Student Researcher with Dr. Doug DeGroot — Fall 2023

Worked on *Coding Semantics: Sentiment Analysis in Movie Reviews* project.

- Collaborated with a team and academic advisor to determine the direction of an open-ended sentiment analysis project, leading to the development of models using BERT and XGBoost.
- Developed sentiment analysis models that accurately classified 90 percent of movie review sentiments, showcasing the effectiveness of the chosen methodologies.
- Presented research findings to a panel of university academics and industry professionals, receiving positive feedback for the project's innovative approach.

Industry Experience

Center for Security and Emerging Technology, Georgetown University — Spring 2026

Intern

Onplanetz — Fall 2024 - Spring 2025

AI Engineer Intern

- Design and implement AI-driven recommendation systems to optimize study plans and identify students' weak areas.
- Processed educational datasets using text recognition tools and organized them into structured formats for AI training.

AI Studio Fellow — Fall 2024

Relativity

- Collaborated with a team of five on the *Evaluating Frontier Models for Bias and Representation* project to systematically assess and quantify biases in frontier AI models.
- Conducted comprehensive testing of AI models to uncover systematic biases, exceeding the accuracy and depth of existing bias detection methodologies.
- Presented actionable insights to company leaders, aimed at mitigating the impact of biases in AI applications within the justice system.

Teaching Experience

UTD CS 1337 Computer Science I, *Grader*	Fall 2025
UTD CS 2336 Computer Science II, *Grader*	Spring 2024
UTD CS 1337 Computer Science I, *Teaching Assistant*	Spring 2024
UTD CS 1334 Programming Fundamentals for Non-Majors, *Teaching Assistant*	Fall 2023
GARLAND ISD Various Math Courses, *Substitute Teacher*	Fall 2023-Present
ICODE SCHOOL Introduction to Web Development, *Technical Lead*	Fall 2023-Spring 2024

Other Experience

UT Dallas Office of Research, *Research Information Systems Worker*	Summer 2024
Break Through Tech AI, *AI/ML Fellow*	May 2024-May 2025s
ACM UTD, *Back-end Developer*	Feb 2024-Apr 2024
UTDesign, *Frontend Software Developer*	Jan 2024-May 2024
Walters Kluwer Tax and Accounting, *Extern*	Mar 2023

Awards

2026 DAAD RISE Scholarship - $5000
2026 Undergraduate Research Scholarship Award (URSA) - $500
2026 Undergraduate Research Scholarship Award (URSA) - $500
2025 Barry Goldwater Scholarship - $7,500
2025 Undergraduate Research Scholarship Award (URSA) - $500
2024 Undergraduate Research Apprenticeship Fellowship Award (URAP) - $4,500
2024 People's Choice Award, Association for Computing Machinery Projects
2024 Leland Dillaha MSEE '97 Undergraduate Scholarship – $1,000
2022 National Merit Scholarship UT Dallas – $3,000

Community Involvement

UT Design, *Code Review Volunteer*	Summer 2024
UTD Society of Asian Scientists and Engineers, *Secretary and Chair*	January 2023-August 2024
UTD Artificial Intelligence Society, *Officer*	October 2022-May 2023