

Erik T. Nguyen

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Education

UCSD (University of California, San Diego)

M.S. IN COMPUTER SCIENCE

La Jolla, CA

Sep 2024 - Present

- **GPA: 4.00/4.00**, Expected Grad Date: Jun 2026

CSUF (California State University, Fullerton)

B.S. IN COMPUTER SCIENCE

Fullerton, CA

Aug 2022 - Aug 2024

- **GPA: 3.94/4.00, Graduated with Summa Cum Laude Honors**
- Activities: CIC-PCUBED & Project RAISE Research Mentor, Undergraduate Researcher, Instructional Assistant

Skills

- Programming** Python, Java, C/C++, C#, Lua, LaTeX, HTML
- Applications** Android Studio, Jupyter Notebook, PyCharm, IntelliJ, Git/GitHub, Excel
- Libraries** PyTorch, Pandas, Flask, TensorFlow, NumPy, Scikit-Learn

Experience

Thales

SOFTWARE ENGINEERING INTERN

Irvine, CA

Jul 2024 - Oct 2024

- Developed and executed **JUnit** & **Mockito** tests on the Android platform, ensuring full JaCoCo compliance for code coverage and quality assurance.
- Conducted research and evaluation of a new Thales **LLM** designed for internal use, assessing its potential for adoption among current software engineers. Presented findings to key stakeholders.

CEDDI Lab (Prof. Sampson Akwafuo)

RESEARCHER

Fullerton, CA

Feb 2024 - Sep 2024

- Carried out research and developed a machine learning model for facial beauty perception, incorporating safeguards to minimize racial bias through advanced computer vision and **GNN** deep learning techniques.

California State University, Fullerton

STUDENT RESEARCH MENTOR

Fullerton, CA

May 2024 - Aug 2024

- Guided and mentored **20+** students on data science & pairs trading research projects, with topics that involve statistical analysis, data preprocessing, and machine learning.

INSTRUCTIONAL STUDENT ASSISTANT

Sep 2023 - May 2024

- Graded and provided detailed feedback on **400+** student assignments/projects on Canvas for **Algorithm Engineering** and **Advanced Algorithms** courses, ensuring timely and accurate assessments during the Fall 2023 and Spring 2024 semesters.

Undergraduate Research, ASSURE-US at CSUF

RESEARCHER

Fullerton, CA

May 2023 - Jul 2023

- Developed a **Random Forest** machine learning model predicting student dropout or graduation using academic and socioeconomic factors, with potential applications in early support interventions. Presented at **SCCUR'2023** and **NCUR'2024** Conferences.
- Created a model for phenological predictions of cherry blossom bloom dates across diverse regions of Japan. Presented findings as an academic poster at the **SIGKDD'2023** Conference for the SoCal Data Science Day track.

Publications

Regression Guided Strategy to Automated Facial Beauty Optimization through Image Synthesis

ERIK NGUYEN AND SPENCER HTIN

arXiv preprint arXiv:2501.00811, 2024

Racially Inclusive Approach to Facial Beauty Modeling Using Machine Learning

ERIK NGUYEN, SAMPSON AKWAFUO, DOINA BEIN, AND BLESSING OJEME

Proceedings of the 2024 IEEE International Conference on Bioinformatics and Biomedicine (BIBM), pages 4466–4472. IEEE, 2024

Presentation

National Conference on Undergraduate Research

Long Beach, CA

PRESENTER FOR NCUR'2024 CONFERENCE

Apr 2024

- Presented the project "Student Success Classification in Higher Education" as an academic poster.

Southern California Conferences for Undergraduate Research

Fullerton, CA

PRESENTER FOR SCCUR'2023 CONFERENCE

Nov 2023

- Presented "Student Success Classification in Higher Education" as an academic poster.

29th Knowledge Discovery in Data Conference

Long Beach, CA

PRESENTER FOR SIGKDD'2023 CONFERENCE

Aug 2023

- Presented "Phenological Prediction of Cherry Blossom Bloom Dates in Various Geographic Locations of Japan" as an academic poster for the Southern California Data Science Day track.

Honors & Awards

Apr 2024 **Most Innovative Project Of The Year**, CSUF ECS Innovation Expo 2024 Competition

Fullerton, CA

Aug 2024 **Summa Cum Laude**, Graduated with Honors at California State University, Fullerton

Fullerton, CA

Projects

Caption Crafter

Fullerton, CA

FLASK WEB APPLICATION

Jan 2024 - May 2024

- Constructed a Flask web application leveraging image processing/**NLP** and deep learning to autonomously generate textual captions for user-uploaded images.

TuneStacker

San Clemente, CA

NATIVE ANDROID APPLICATION

Jan 2023 - Feb 2023

- Developed a music playlist management mobile app enabling users to import and sync playlists from platforms like YouTube. Integrated a built-in media player for listening to imported songs. This was a personal project of mine.