Nicole Ly

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Education

University of California, Irvine Irvine, CA

Bachelor of Science in Computer Science, Minor in Statistics *Sep. 2022 – May 2026*

- GPA: 3.51/4.0
- Programming Languages: Python, C++, HTML/CSS, SQL
- Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Machine Learning & Data Mining

Experience

Software Engineer Intern January 2024 - May 2024

Western Digital | Software Development Team & Data Analytics/Machine Learning Team *Irvine, CA*

- Worked on developing a machine learning-based risk model to predict bug-prone code changes by using historical data in order to reduce potential defects before check in.
- Integrated data from 6,411 JIRAs, GIT repositories, and peer review metrics to identify bug-introducing changes.
- Achieved an accuracy of 76.7% with Radial SVM, outperforming CodeScene's built-in risk model with an accuracy of 57.6%.
- Worked on a Log Browser Tool to provide a synchronized view of multiple log sources using the Parqour format based on Parquet.
- Implemented functionality to support local, absolute and S3 data sources for log integration.
- Designed a script to convert E6 binary and ETL text logs to Parquor format.
- Added docker support for containerized application hosting.

Information Technology Intern June 2024 – September 2024

EasterSeals *Irvine, CA*

- Developed a dashboard using PowerBi integrating Ninja One to track health and status of company distributed iPads.
- Automated a workflow using Power Automate, Power App, and Power FX to schedule meetings within Microsoft Teams channels, improving efficiency for 100+ employees.
- Developed a chatbot with Copilot Studio to introduce associates to AI and assist with prompting.

Projects

Chatbot | *Python, Tensorflow, Keras, Numpy, Git* July 2022 – August 2022

- Developed a chatbot using a neural network architecture implemented aimed at assisting students in overcoming procrastination.
- Prepared my own dataset from student procrastination-related discussions on Reddit.
- Implemented and fine-tuned the model to interpret user inputs effectively and generate appropriate responses based on predicted conversation tags.
- Achieved an accuracy rate of 62% in correctly responding to user queries.

Personal Website | *HTML, CSS, Bootstrap, JavaScript* June 2022 – July 2022

- Developed a personal website from scratch.

Text-To-Speech | *Python, MongoDB, Google's TTS API* June 2022 – May 2022

- Extracted lecture notes from a professor's website and converted them into speech.
- Developed a web scraping script using Request and LXML Python Library to translate the raw text to MP3 files.
- Utilized a MongoDB cluster with PyMongo to store the generated MP3 files and raw text data.