

# UYEN NHI LE

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San Diego, CA, 92105

**Education**      **University of California, San Diego | September 2023 - Current**

**Computer Science Major**

Expected Graduation: June 2025

- Overall GPA: 3.787 | Major GPA: 3.89

**San Diego Mesa College | August 2020 - June 2023**

- Overall GPA: 3.93
- Associated Degree in Science for Transfer

Relevant Courses

- Software Engineering
- Design and Analysis of Algorithms
- Mathematics for Algorithms and Systems
- AI: Probabilistic Models
- Intro to Machine Learning
- Recommender Systems And Web Mining.
- Component and Design Techniques for Digital Systems
- Intro to Computer Architecture: A Software Perspective
- Database Systems Principles
- Operating Systems Principles
- Web Client Languages
- Theory of Computability

**Technical Skills**

- **Programming Languages:** Java, C++, Python, HTML, CSS, TypeScript, Javascript, SQL
- **Tools:** Microsoft Office, Visual Studio Code, GitHub, SQL
- **Others:** Agile software development lifecycle

## Projects

### ➤ Group:

★ **Web application “TritonCook”:** A web platform that allows UCSD students to find, share, and discuss recipes depending on their budget, time constraints, and goals.

- **Link:** <https://github.com/maynhile13105/CSE110-Project-TritonCook.git>

- **Demo:** <https://youtu.be/YC7cNWWQfpQ?si=an9Cz2ElgZbuFVfY>

- **My Contributions to the Project:**

○ Agile team roles: Developer, Scrum Master, Project Manager.

○ Technical:

- Designed and implemented the **user interface** for the login system (including the default login page, reset password page, and create account page) and the Welcome page for new users.
- Developed the **back-end functionality** for favorite recipes (save favorite recipes to the list)—integrated back-end logic to **fetch and display recipes and the user’s page** in the application.
- Developed a system to store and load the images.
- Designed the database’s structure.

★ **Machine Learning:** Build three different models to predict the likelihood of personal injury based on accident details.

- **Link:** [https://github.com/devPach4545/CSE\\_151A.git](https://github.com/devPach4545/CSE_151A.git)

- **My Contributions to the Project:**

○ Agile team roles: Developer

○ Technical:

- Performed **data cleaning** to ensure accuracy and consistency in the dataset.
- **Encoded one of the attributes** to make it suitable for model training.
- Conducted a **validation split** for effective training and testing of the models.
- Built **Model 3: Linear Support Vector Machine (SVM)**, including Analyzing the model's performance on the fitting graph to determine

where it best fits and Comparing the SVM model's performance against other models to assess effectiveness.

➤ **Individual:**

- ★ Write a program in Python that takes as input a representation of an NFA over an alphabet and outputs a representation of a DFA over this alphabet that recognizes the same language.

- Link:

[https://colab.research.google.com/drive/147gMKBNlvKAFUPJBCjj3M-ZCRcL1zp\\_6?usp=sharing](https://colab.research.google.com/drive/147gMKBNlvKAFUPJBCjj3M-ZCRcL1zp_6?usp=sharing)

- ★ Write a program in C++ to encode and decode a file. (Private code due to Academic Policy)
- ★ Write a program in C++ to implement a graph from a data file (.csv), find the weighted/unweighted shortest path from point A to point B, and find the connected components and the smallest threshold. (Private code due to Academic Policy)