Ian Comey

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EDUCATION

Loyola Marymount University | *Bachelor of Science in Computer Science*   August 2021- May 2025
- **GPA**: 3.64
- **Involvements:** CS Tutor & TA, Rock Climbing Club, Han Tao
- **Key Courses:** Data Structures, Algorithms & Analysis, Senior Project I & II, Linear Algebra

WORK EXPERIENCE

Data Engineering Intern at SpecieBio   June 2024 - August 2024
Key Skills: *Python, Jupyter, Label Studio*
- Spearheaded a multi-phase project focused on determining accuracy and effectiveness of LLM concept mapping as an internal data processing tool.
- Validated **~12,000** concept mappings with data labeling tools and built a web app to process and visualize results.
- Presented final app showcasing results of 3 LLM training iterations/runs to the team, revealing outcomes that lead the team to pursue a different concept mapping process.

Software Development Intern at Valink Therapeutics   August 2023 - November 2023
Key Skills: *Python, Pandas, NumPy, Tkinter, Matplotlib*
- Created an amino acid transformation script to help company scientists and engineers save time on basic conversions.
- Achieved **99.3%** accuracy for protein concentration estimation of lab samples using a regression learning model.

PROJECTS

Async
Senior Capstone Project | *React, Javascript, Postgres, Tailwind*
- Created login screen, discussion board, and dashboard components with form and user authentication; designed backend functionality plan and implemented key API endpoints.

LLM Mapping Accuracy App
SpecieBio Internship Project | *Dash, Plotly, Jupyter, Pandas, Label Studio, Git*
- Developed a web app to present thousands of data mapping results as color-coded pie charts.
- Implemented features such as LLM confidence-in-accuracy score filtering, comparison view for specific data categories, and CSV import/export capabilities.

Protein Concentration Estimation
Valink Therapeutics Internship Project | *Pandas, NumPy, Tkinter, Matplotlib*
- Built a script utilizing a polynomial regression model to estimate protein concentrations of in-house Bradford Assay data.
- Collaborated with team engineers to gather feedback, iteratively refining scripts for better accuracy and alignment with lab needs.

SKILLS

- **Languages:** Python, Javascript, SQL
- **Tools/Frameworks:** Pandas, Plotly, Jupyter, Numpy, Matplotlib, Git, React, Node, Fastify, Tailwind, shadcn/ui, PostgreSQL