# Ian Comey

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## WORK EXPERIENCE

**Valink Therapeutics** Software Engineer Intern | London (Remote) Aug. 2023 - Nov. 2023

*Key Skills:* Python, Benchling, Pandas, NumPy, Tkinter, Matplotlib

- Conducted the design and implementation for an amino acid sequence transformer to generate molecular weight, extinction coefficient, and theoretical PI in order to help Valink research scientists save time on basic conversions and calculations.
- Collaborated with company research scientists to automate the estimation of protein concentration for lab samples through a polynomial regression machine learning model, and implemented an analyzer that returned a ~99.3% prediction accuracy.
- Explored a data pipeline with cloud-based platform Benchling to speed up company research and development on DNA and protein data processing.

## PROJECTS

**Flappy Bird Computer Game**

Computer Programming and Lab | Final Group Project

- Assisted group mates with applying OOP concepts to project and implementation of Pygame module.

**NBA Teams Information iOS App**

Mobile Application Development | Individual Class Project

- Conceived a basic iOS app that contains information about all 30 NBA teams.

**Protein Concentration Estimation**

Valink Therapeutics | Internship Project

- Prototyped a python script to estimate protein concentrations for a database of diluted lab solutions through machine learning regression models and data libraries, based on in-house lab data from a Bradford Assay.
- Utilized python libraries such as Pandas, NumPy, Tkinter, and Matplotlib in order to organize data, create a scatter plot and a 2nd fit polynomial regression, analyze accuracy of the polynomial fit, and convert results to molar units.

## PROGRAMMING SKILLS

- **Proficient:** Python
- **Working Knowledge:** Java, SwiftUI, C
- **Data Processing:** Pandas, Numpy, Matplotlib
- **Databases:** PostgreSQL
- **Other Tools:** Git, Benchling, Tkinter

## EDUCATION

**Loyola Marymount University** | Bachelor of Science in Computer Science August 2021- May 2025

- GPA: 3.79/4.0
- **Core Courses:** Data Structures & Applications, Algorithms & Analysis, Mobile Application Development, Computer Systems Organization, Discrete Math for Computer Science, Game Design, Linear Algebra, Calculus