

# Emily Wang

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## EDUCATION

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### Pomona College

Expected: May 2024

*Bachelor of Arts in Computer Science — GPA: 3.94/4.00*

*Claremont, CA*

- **Coursework:** Data Structures & Algorithms, Human-Centered Design, Computer Systems, Computational Practices, Probability, Game Engine Programming, Data Science & Stats Learning, Engineering Design & Innovation (SP2023)

## RELEVANT EXPERIENCE

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### Salesforce

May 2023 – August 2023

*Software Engineering Intern | Objective-C, UIKit, XCTest, OCMock*

*San Francisco, CA*

- Led cross-functional collaboration to deliver multitasking features on CRM Analytics iOS app, boosting productivity of 232,000+ monthly active users.
- Reduced app setup overhead by 35% by implementing infrastructure changes with **UIKit** and refactoring **Objective-C** codebase to support multi-window architecture on iPadOS.
- Wrote unit and integration tests with **XCTest** and **OCMock**, achieving above 85% code coverage.

### Pomona College

August 2022 – Present

*Data Structures & Algorithms Teaching Assistant | Java, JUnit*

*Claremont, CA*

- Mentoring concepts 2x a week and assisting with grading and debugging of programming assignments in **Java**.

### Noblis

June 2022 - August 2022

*Software Engineering Intern | Python, Docker, Rest API, JSON, BeautifulSoup*

*Reston, VA*

- Modeled and deployed a stand-alone LTE/5G CBRS mobile network solution for government agencies, leveraging virtual machines to optimize network performance and scalability.
- Utilized **BeautifulSoup**, **REST APIs**, and **JSON** to automate research process, reducing search times by 10x.
- Created internal tools with **Docker** and **LINUX shell scripting** to cut network testing steps by 67% in **iPerf3**.

### Pomona College

May 2022 – June 2022

*iOS Engineer | Swift, UIKit, Core Data*

*Claremont, CA*

- Shipped iOS app that assists memorization of vocabulary terms alongside Professor Feng Xiao.
- Managed agile product roadmap to design and develop 11 view controllers with **Swift** and **UIKit** in under 30 days.
- Implemented CRUD operations with **Core Data framework** to handle, persist, and load user data.

## PROJECTS

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### P-TCM | Python, Matplotlib, Scikit-learn

- Researched and applied machine learning classification algorithms to associate modern nutritional science with traditional Chinese medicine properties utilizing **Pandas**, **Matplotlib**, and **Scikit-learn**.
- Improved accuracy of classification algorithms by 2x to 70% accuracy through data wrangling.

### CNNs: Image Style Transfer | Python, Markdown, Tensorflow, Matplotlib

- Implementation guide that introduces beginners to computer vision, convolutional neural networks, and its usage to perform a style transfer algorithm.

### CryptoNews | Python, Requests, NLTK

- Processes news articles retrieved through web APIs on cryptocurrencies and generates overall sentiment of the coin or token using natural language processing.

### Tippy | Swift

- Developed a tip calculator app for iOS with customizable tip rates and dark mode.

## TECHNICAL SKILLS

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**Languages:** Python (Markdown, Jupyter, BeautifulSoup, Pandas, Tensorflow, Matplotlib, NLTK, Scikit-learn, Requests, OS), Swift (UIKit, XCTest, Core Data, Storyboards), Objective-C (OCMock), Java (JUnit), Rust, HTML, R  
**Developer Tools:** XCode, VSCode, Eclipse, Jenkins, SonarQube, Git, Github, Bitbucket, Docker, RStudio