

# Grace Chen

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## Education

**UCLA (University of California Los Angeles):** Computer Science & Piano Perf. double major

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|-----------------------------|-----------------------------------|------------------|
| ○ Relevant coursework:      | <b>GPA: 3.782</b>                 | <i>2021-2025</i> |
| Intro to ML, Intro to AI    | Algorithms and Complexity         |                  |
| Natural Language Processing | Introductory Statistics           |                  |
| Programming Languages       | Linear Algebra, Advanced Calculus |                  |

**Cornell University:** ML Foundations e-Certificate, Break Through Tech, from 3000+ applicants *Summer 2024*

## Skills

ML, NLP, Python, SQL, Java, JavaFX, C, C++, React, HTML, CSS, Firebase, Git, Algorithms, OOP

## Work Experience

**GumGum Verity** AI Fellowship for fine-tuning multi-modal contextual model *Aug 2024 – present*

- optimizing performance w/ state-of-the-art models like Flamingo across diverse data inputs (text, image, and video) for enhanced content understanding.

**Bionics Lab AI Research** AI-driven stroke patient therapy *May 2024 – present*

- Streamlined process of data collection, cleaning, and trend analysis with real patients and therapists
- Tailored features and fine-tuned a neural network ensemble model for accurate prediction
- Led the redesign of hand sensors, calibration methods, enhancing accuracy and robustness

**Teacher Assistant** Kumon Math and Reading Center in Cupertino, CA *Sep 2018 - Aug 2021*

## Projects

**Pool Palooza** team lead of a graphics game group project [\[demo\]](#) *Spring 2024*

- Made without game engines (manually implemented shaders, physics, sound, etc.)
- Using matrices, vector calculations with tinygraphics and Javascript localhost

**DreamTeam** weekly to-do task scheduler app *June - Sept. 2023*

- Distributed, multi-tiered desktop calendar app w/ customizable preset tasks, link and progress tracker
- **JavaFX** and relational **MySQL** database for real-time sync, user-friendly UI and drag & drop
- Distributed & uses multithreading/concurrency to separate UI & background process

**Malloc Lab** in C language, ranked top 10% efficiency in class *June - July 2022*

- Dynamic segmented free list algorithm for optimal memory allocation within Linux

**FloraFauna** group project web application development *Jan. - April 2022*

- Social media forum site for users to crowdsource local wildlife species
- Manager & designer of front-end frameworks, UX design, **Figma mockup**, **React**, **JavaScript**, **Firebase**

## Awards & Interests

Full-ride Shera and Peter Falk Lt. Columbo Memorial Scholarship winner *2021-2025*

4-year National Merit Scholarship from Boeing (from top PSAT rankings) *2021-2025*

T. Howard Foundation final talent pool member *Dec. 2023*

Engineering Deans Honors list awardee *Fall 2024*

**Art** and Classical piano (**1st place** in UCLA 2023 Rubinyi Competition)

Blender/Maya sculpting, **3D printing**

Gaming PC upgrading, smartphone disassembly, Gunpla