

# Felix Peng

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## EDUCATION

**Harvey Mudd College**, Claremont, CA

GPA 3.67 | B.S., Engineering | Expected MAY 2028

## SKILLS

**Languages/Frameworks:** Python, scikit-learn, NumPy, pandas, SQL, JavaScript, HTML/CSS, OCR/Tesseract, Retool, ChromaDB, OpenAI APIs, Git, Microsoft Copilot Studio, Figma, Retrieval-Augmented Generation (RAG)

## EXPERIENCE

**Software/AI Engineering Intern**, Los Angeles Department of Water and Power, Los Angeles, CA JUN 2025 - AUG 2025

- Deployed an AI-powered chatbot (SharePoint + OpenAI RAG prototype) enabling 250+ staff to retrieve 300+ pages of LADWP technical standards ~80% faster with tuned chunking/overlap and integrated with Microsoft Copilot Studio.
- Devised SQL filtering pipeline to detect unmetered work requests (80K+), flagging 206 cases for ~\$370K revenue recovery.
- Presented results to LADWP leadership (CIO); tool praised as scalable with potential multi-million-dollar impact.

**Associate Tech Consultant**, GridCARE, Redwood City, CA JAN 2025 - JUN 2025

- Built Random Forest-based model unifying 200+ data centers (SP Global, LBNL, Aterio datasets), achieving 0.79 predictive accuracy on energy demand, work now applied internally by GridCARE.
- Led a sales call with SP Global that directly resulted in GridCARE purchasing \$XXXk of data to strengthen its siting platform.

**Associate Tech Consultant**, IBM, Claremont, CA SEP 2024 - JAN 2025

- Designed synthetic data review interface with Figma, replacing spreadsheet workflows and will be used by IBM internally.
- Reduced review time ~3x across 10k+ Q&A pairs with list/modular views, embedded source docs, and commenting tools.
- Conducted usability testing with 5 IBM engineers; presented final design to managers, praised as a “large improvement.”

**Co-President/Founding Team**, Claremont Accelerator, Claremont, CA SEP 2024 - PRESENT

- Co-led largest student-run accelerator at the 5Cs, startup outcomes include: Pheratech Systems (\$1M+ raised in VC funding), Glam Up (100K to 1M+ downloads, Top 3 App Store), Brain (pilot with 200 students).
- Raised \$124,000 from alumni, RLCIE, The Hive, Cooley, AWS, Google Cloud; provided \$6K equity-free grants/startup.

**Contract Software Engineer**, Alpha Edison Venture Capital, Los Angeles, CA SEP 2024 - JAN 2025

- Programmed Chrome extension + RAG bot automating due diligence for \$150M AUM VC firm reducing prep time by 70%.
- Scrapped dynamic websites via Mercury Parser, with Retool SQL and OCR as fallback, now in active use.

**Research Intern Lead**, Harvey Mudd College, Claremont, CA JUN 2023 - PRESENT

- Won DOE EnergyTech Prize (\$20K) after leading tech commercialization of Dr. Saeta's hotspot-free solar panel tech, with input from 30+ experts to validate dynamic conductance monitoring (71% less degradation and fire-risk elimination).
- Researched AI/ML + robotics for solar farm siting in extreme-heat regions with Prof. Gu; conducted stakeholder outreach (6 letters of support from researchers at Sandia, UC Merced, UNLV) and wrote DOE Solar Prize Round 7.

## PROJECTS

- GG Census: Data analysis for nonprofit investing strategy w/ Python/SKLearn, 85.7% accuracy w/ Random Forest Classifier.
- Logic Gate Demo Board: Constructed for Digital Electronics course (~200 students/year), fabricated with 7 IC-based gates (74HC00), SolidWorks CAD, 3D printing/laser cutting, and delivered at 53% under budget with a 30-year lifespan.

## EXTRACURRICULAR EXPERIENCE

**Class of 2028 President (Freshman/Sophomore)**, Harvey Mudd College, Claremont, CA SEP 2024 - PRESENT

**Board of Trustees Academic Affairs Student Rep**, Harvey Mudd College, Claremont, CA SEP 2024 - PRESENT

**Dorm Mentor**, Harvey Mudd College, Claremont, CA MAY 2025 - PRESENT

**Alumni President**, Young Investors Society, Global (13k+ students, 2.4k+ schools, 80 countries) AUG 2019 - PRESENT

## AWARDS AND ACHIEVEMENTS

1st Place in Sparkathon: Human-Centered Design (modeled >50,000 lbs e-waste diverted) OCT 2024

- Designed Figma donation app, Python distributed compute demo (15% runtime speedup via parallelization).

2nd Place Bloomberg BPuzzled Puzzle Competition among the Claremont Colleges SEP 2024

Top 30 MIT Mystery Hunt (2025): Solved 119 of 177 puzzles with HMC alumni team. JAN 2025

1st Place Regionals NASA Global Space Apps (Creative Data Display Display) using Javascript JAN 2023

## INTERESTS

Puzzle Hunts, Breakdancing, Calisthenics, Journaling, Baking (Copper Chef Competition Rep), Machining, Rocketry