

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 \$XXk 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%.
- Scraped 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