

YUANBO PANG

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🎓 EDUCATIONAL BACKGROUND

Stanford University (Summer Session) Stanford, CA | Summer 2025

CS 229: Machine Learning

University of California, Berkeley Berkeley, CA | 2025 – 2027

Bachelor of Science in Electrical Engineering and Computer Sciences (EECS)

De Anza College & Foothill College Cupertino, CA & Los Altos Hills, CA | 2023 – 2025

Phi Theta Kappa Honor Society Member

Academic Director of Quantum Club | President of Data Club | Vice President of EnvirEcon Club

Associate Degree, Computer Science

GPA: 4.0/4.0

Relevant Coursework: Java, Python, C++, Physic 4A-4D

Online Courses

Deep Learning (5-Course Specialization) offered by DeepLearning.AI

Mar - June 2024

⚙️ SKILLS

- Programming Languages: Python, C++, Java, Swift, HTML
- Professional Skills: PyTorch, TensorFlow, NumPy, Pandas, FastAPI, MongoDB, Auth0, OpenCV
- Data Science Skills: Machine Learning, Data Science, Neural Networks, Data Analysis, Large Language Models, Computer Vision

👜 WORK EXPERIENCE

AI Platform Software Engineering Intern, Geopogo Berkeley, CA | Fall 2025

- Architected AI-powered multimodal generation platform integrating advanced language models and diffusion-based synthesis for architectural visualization workflows.
- Engineered scalable inference pipeline with adaptive credit allocation system and real-time generation monitoring.
- Deployed production-grade application with automated continuous integration and optimized model serving infrastructure.

Research Intern, Stevens Institute of Technology (Prof. Hao Wang) Hoboken, NJ | July 2024 - Present

- Conducting graduate-level research focused on protecting local data, enhancing personalized learning, and optimizing security protocols.
- Applied advanced machine learning methodologies, including neural network frameworks like PyTorch and TensorFlow, to accelerate personalized federated learning and reinforce data security through differential privacy techniques

Student Ambassador, Fetch.AI Innovation Lab Cambridge, UK / San Francisco, CA | October 2024 - Present

- Mentored and evaluated technical projects at CalHack 11.0 (UCB Hackathon) and SF Hacks, facilitating clear communication between technical teams and participants.
- Assisted over 20 teams in resolving technical issues, offering guidance on both front-end and back-end development.
- Led a large-scale workshop for hundreds of participants, helping to co-organize the event and motivate participants to achieve their project goals.

📖 ACADEMIC EXPERIENCE

AI-Powered Mario Level Generator | LLaVA, Modal, FastAPI, React, OpenCV Cambridge, MA | Sep 2025

Won [Modal Sponsor Prize] HackMIT 2025

- Built end-to-end system transforming hand-drawn sketches into playable Mario levels using computer vision and large language models.

- Integrated LLaVA 1.5 for sketch interpretation and deployed H100 GPU inference on Modal cloud platform for real-time processing.
- Developed FastAPI backend and React frontend with OpenCV integration, enabling seamless game generation from drawings.

Stud.ai | *FastAPI, React, Python, Fetch.ai*

Cambridge, MA | Sep 2024

Won [Smartest AI Agent] HackMIT 2024

- Streamlined assignment completion by generating step-by-step timelines based on descriptions and rubrics.
- Automatically scheduled suggested work periods in students' available calendar slots.

Green Energy Sustainability Study | *pytorch, pandas*

De Anza College | Apr - Jul 2024

- Led team comparing Kirsch Center's energy use & environmental impact to a gas-powered building.
- Developed Python scripts to analyze real-time energy usage data and visualize differences in cost-effectiveness.

Robotic-Arm Project, Engineering Club, Foothill College

Apr - Jul 2024

- Developed an end-to-end chess piece recognition and control system using a UR10 robot with custom hardware and software.
- Implemented ResNet-50 for piece detection and utilized Azure Kinect SDK for image processing.

Golden Groceries | *FastAPI, React, Python, Node.js*

Berkeley, CA | Jun 2024

- Created a system for seniors to track nutrient intake from food photos, with data shared securely with healthcare providers.
- Integrated ChatGPT for data analysis and used You.com for real-time restaurant searches.

GetResearch | *FastAPI, React, PostgreSQL, PropelAuth*

Davis, CA | Apr 2024

Won [MLH - Best DomainHackDavis] HackDavis 2024

- Led development of a platform connecting students and professors for research collaboration, improving visibility and accessibility.
- Implemented FastAPI, React, PostgreSQL, PropelAuth, and AWS back-end services.

ClearSight | *FastAPI, React, JavaScript, MongoDB*

Berkeley, CA | Feb 2024

Team Project | Team Leader Won [Hack for Financial Transparency] Hack for Impact 2024

- Developed a financial transparency tool using the HCB Transparency Mode API for real-time data.
- Created an intuitive, customizable dashboard with advanced visualization and interactive features.

SlugHug | *React, JavaScript, MongoDB, Auth0, Axure*

Santa Cruz, CA | Jan 2024

Won [Health Hack Second Place] and [Sponsor - Axure] CruzHacks

- Integrated Auth0 with MongoDB using React, ensuring secure data storage.
- Contributed to UI/UX design with a playful, character-based theme.

AI-Enhanced Classroom Assistant for Interactive Learning | *Python, JS, C#*

Cupertino, CA | Oct 2023

Won [Best API] De Anza Hack 2.0

- Led a project integrating AI as a teaching assistant to improve student learning efficiency.
- Implemented Vosk-powered live speech recognition and integrated OpenAI API for real-time content analysis.

♥ AWARDS AND HONORS

Modal Sponsor Prize, HackMIT (MIT)

Sep 2025

Smartest AI Agent, HackMIT (MIT)

Sep 2024

Sponsor - Hack Foundation, Hack for Impact (UCB)

Feb 2024

MLH - Best Domain, HackDavis (UCD)

Apr 2024

Health Hack Second Place and Sponsor - Axure, CruzHacks

Jan 2024

Best API, De Anza Hacks

Oct 2023

First Prize, Jiangsu Province Chinese National Physics Olympiad

2022