

YUANBO PANG

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🎓 EDUCATIONAL BACKGROUND

De Anza College, Cupertino, CA

2023 – 2025

Associate Degree Computer Science, expected to graduate in June 2025 **GPA: 4.0/4.0** **Relevant Coursework:** JAVA, Python, C++, Object Oriented Analysis and Design,

Online Courses through Coursera

Linear Algebra for Machine Learning and Data Science (offered by DeepLearning.AI) Jan 2024

Neural Networks and Deep Learning (offered by DeepLearning.AI) Mar 2024-May 2024

Structing Machine Learning Project (offered by DeepLearning.AI) Mar 2024-June 2024

Convolutional Nerual Network (offered by DeepLearning.AI) Mar 2024-June 2024

Sequence Models (offered by DeepLearning.AI) June 2024

Supervised Machine Learning: Regression and Classification (offered by DeepLearning.AI, Stanford University) Feb 2024

Python and Pandas for Data Engineering (offered Duke University) Mar 2024

Programming Fundamentals in Swift (offered by Meta) Dec 2023

Online Courses through Edx

6.00.2x: Introduction to Computational Thinking and Data Science (by MITX) Nov-Dec 2023

6.002.1x: Circuits and Electronics 1: Basic Circuit Analysis (by MITX) Feb 2024-Present

📁 WORK EXPERIENCE

Research Intern|IntelliSys Lab, LSU

Baton Rouge, LA

July 2024-Present

- Federated Learning Approach and Distributed Computing

Software Engineering Remote Intern

SINGULARITY ROBOTICS PTE. LTD, Singaporean

March 2024-Present

News Related to Using Cosine Similarity and AI Database Recommendations

📖 ACADEMIC EXPERIENCE

Robotic-arm

Engineering Club, Foothill College

team project

April 2024-present

The UR10 Chess Project aims to explore the possibilities of robotics in replicating human-like decision-making and precision in a controlled environment. This is being accomplished with a Universal Robots UR10, with custom hardware and software, both created by the Engineering Club.

Source Code: https://github.com/FH-EngineeringClub/UR10_workspace

- End-to-end chess piece recognition using the Res-50 network.
- CImage cutting with deep images from Azure Kinect SDK and end-to-end neural networks.

Golden Groceries | *FastAPI, React, Python, Node.js, Claude, You.com*

Berkeley, CA

team project|team leader

April 2024-present

Source Code: <https://github.com/GoldenGroceries/Project>

- Seniors can take pictures of their food to analyze nutrient intake. Provides daily and weekly tracking and shares data with healthcare providers.
- FastAPI for API endpoints, analyzing user data with ChatGPT, real-time restaurant searches with You.com.
- Successfully ran LLAVA1.5 multimodal model on Intel CPU, achieving GPU-comparable performance.
- Integrated You.com for autonomous internet search results.

GetResearch | *FastAPI,React,PostgreSQL,PropelAuth,AWS*
team project|team leader

Davis, CA
 April 2024

Demo: <https://getresearch.tech>

Source Code: <https://github.com/GetResearch/Project>

- Inspired by our experiences as community college students struggling to find research opportunities. Connects students with professors for research collaboration, addressing visibility and accessibility issues.
- Real-time updates, dual functionality for students and professors, streamlined application process, enhanced visibility for professors.
- Win [MLH - Best DomainHackDavis]
- Received high praise from cross-evaluations by numerous undergraduates at the competition site.

ClearSight| *Fastapi,React,JavaScript,HTML,MongoDB*
team project|team leader

Berkeley, CA
 February 2024

Win [Hack for Financial Transparency]|Hack for Impact 2024

Demo <https://berkelay-hacks.vercel.app>

Source Code:<https://github.com/AGDholo/berkelayHacks>

- ClearSight leverages the HCB Transparency Mode API to fetch real-time financial data and employs advanced visualization techniques to present this data clearly. The intuitive dashboard features customizable filters for tailored views, ensuring a seamless user experience.
- Interactive elements enable users to drill down into specifics, enhancing engagement and understanding of organizational finances. This combination of real-time data, clear visualization, and interactivity makes ClearSight a powerful tool for financial transparency.

SlugHug | *React,JavaScript,HTML,MongoDB,Auth0,Axure*
team project

Santa Cruz, CA
 Jan 2024

Win [Health Hack Second Place] and [Sponsor - Axure]

Demo <https://slughug.us>

Source Code: <https://github.com/marcus-leung/SlugHug>

- Using React to connect Auth0 to MongoDB. Saving Password in Auth0 and data in Mongoddb.
- Contributed to the website's overall design and user flow, which includes bubbly and cute characters, by mastering and applying new skills in Auth0, UI/UX design, graphic design, database management, and React development.

AI-Enhanced Classroom Assistant for Interactive Learning |*Python,Js,Htm,C#* Cupertino, CA
Team Project | Team Leader Oct 2023-Present

Committed to using AI technology to help students improve the efficiency of classroom learning, making AI a teaching assistant by their side

Project Webpage:<https://github.com/ITTAAI/ittaai> **Win [Best API]|De Anza Hack 2.0**

- Gradient Refractive Index Medium for Repairing Optical Fiber** | *Mathematica* Nanjing, CHN
Personal Project Sep 2020-Jun 2021

- ## EXTRACURRICULAR ACTIVITIES

- Led a team of nearly 50 people to shoot the large-scale graduation documentary ' Zhongshan Road 169 ' as the director and director of photography; the released video garnered over 20,000 views.
- Organized promotional tasks for school sports meets, food festivals, and other events.
- Led a technical team to troubleshoot and adjust school audio and video equipment.

- Helping organize the Stanford XR conference 2024 and set up the venue
- Assisted participants in setting up the project display area and guided visitors through the exhibits.

- Helping to distribute food at the church

- In a volunteer event, I led a team to successfully plant a sapling despite rocky challenges, showcasing leadership and collaboration.
- This activity highlighted the value of teamwork and community engagement in environmental efforts.

♡ AWARDS AND HONORS

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| <i>Phi Cheta Kappa Honor Society</i> | Jun 2024 |
| <i>Sponsor - Hack Foundation</i> Hack for impact, UCB | Feb 2024 |
| <i>MLH - Best DomainHack</i> Davis, UCD | April 2024 |
| <i>[Health Hack Second Place] and [Sponsor - Axure]</i> , Cruzhacks 2024 | Jan 2024 |
| <i>Best API</i> , De Anza Hacks 2023 | Oct 2023 |
| <i>First Prize</i> , Jiangsu Province of the Chinese National Physics Olympiad | 2022 |
| <i>The Most Virtuous High School Student in Jiangsu Province</i> | 2023 |
| <i>Silver Medal</i> , American Physics Bowl | Mar 2022 |
| <i>8 points</i> , AIME American National Mathematics Competition | |

⚙️ SKILLS

- Languages: Chinese (native), English (fluent)
- Programming Language: Python, C++, Swift, Html
- Professional Skills: Pytorch, Tensorflow, Numpy, Pandas, Fastapi, MongoDB, Auth0

📄 OTHERS

- 🌐: <https://github.com/PangYuanbo>