

Brandon Yan

Software Engineer and Hackathon Enthusiast

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EDUCATION

University of Pennsylvania

Expected Graduation: May 2026

Major: Computer and Information Science BSE

Philadelphia, PA

- GPA: 3.85/4.00, Relevant Courses: Data Structures and Algorithms, Automata and Computability Theory, Discrete Mathematics for CS, Intro to Algorithms, Introduction to Computer Systems, Social Systems on the Internet, Data Structures (UC Berkeley, 4.0/4.0)
- Activities: Developer for Wharton Undergraduate Finance and Technology, [FranklinDAO](#) Developer for Penn Blockchain
- Awards: USA Computing Olympiad Gold(top 556/6,024), 2x AIME(top 620/24,817), American CS League Finalist (top 99/1,247)

TECHNICAL SKILLS

Languages: C++, Java, Python, C, Go, Golang, R, HTML, Javascript, CSS, SQL, Typescript

Frameworks & Tools: Node.js, Google Maps API, jQuery, Tailwind CSS, Django, Git, VS Code, Visual Studio, Eclipse, IntelliJ, Jupyter

RELEVANT EXPERIENCE

HumanID

June 2024 - Present

Software Developer Intern

Cambridge, MA

- Improved bot deployment efficiency by streamlining the testing process, creating comprehensive documentation, and implementing automated deployment scripts for **Docker** containerization, leading to faster and more reliable updates.
- Enhanced sales rate by **20%** through the development and integration of new features based on user feedback, utilizing **agile** methodologies and continuous integration practices to ensure timely delivery and high-quality performance.
- Revamped production discord-bot permissions for **10** clients by analyzing a test environment, resulting in enhanced security and trust.

Penn Medicine

May 2024 - Present

Research Assistant - Artificial Intelligence in Medicine

Philadelphia, PA

- Engineered an [automated web scraping tool](#) using **Python**, Selenium, and asynchronous methods to extract financial ratios for over **10,000** companies, boosting data collection efficiency by **60%**.
- Collaborated with Professor Rajapakse to plan models and algorithms for medical imaging, using AI to enhance diagnostic accuracy.

Scale AI

May 2024 - Present

Software Engineer for AI Training Data

San Francisco, CA

- Optimized **LLM** production by interpreting over 200 model responses for the Code Extensions and Ostrich teams.
- Leveraged **APIs** like Google Maps, Google Flights, and YouTube, expanding tool capabilities to handle over 50 diverse query types.
- Innovated over 50 coding solutions, effectively solving complex prompts with technical proficiency.

EcoHacks

January 2022 – September 2022

Founder & CEO

Fremont, CA

- Executed partnerships and funding with over 15 companies for hackathon, showcasing proactive initiative and business acumen
- Collected over **4,000** website visits and 600+ attendees from more than 80 countries, leveraging **Google Analytics** for data-driven web development optimizations and DevPost listing modifications to enhance user engagement by **311.11%** over predicted rate
- Facilitated machine learning, web development, and algorithmic coding workshops, elevating project quality by **16.67%**.

Cisco Systems

July 2021 – August 2021

Software Engineer Intern

San Jose, CA

- Designed an [application](#) with two Cisco employees to enable startups to discover untapped markets globally to increase marketing
- Assembled a point density dynamic heatmap using **Google Maps API**, HTML, CSS, and JS, visualizing data for over 1,000 locations.
- Integrated **NodeJS** and GoLang to process thousands of IP addresses, and leveraged **AWS** EC2, S3 for scalable web server hosting

TECHNICAL PROJECTS

Gesture Genie

June 2024 - July 2024

- Trained a neural network using **TensorFlow**, enhancing gesture recognition accuracy by **466.67%** through model optimization
- Integrated **OpenCV** for real-time image processing and HumeAPI for emotion recognition, significantly improving user interactions by cutting data processing time and enhancing the application capabilities.

SmartShop AI

May 2024 - June 2024

- Architected an **AI-powered** virtual store leveraging **Django** for the backend, enabling purchasing and product search functionalities.
- Integrated [CrewAI agents with Flask API](#) for dynamic and intelligent user responses, utilizing optimized database interactions with **SQLite** and chat functionalities to improve response time by **30%**
- Deployed application on Heroku, ensuring scalability while maintaining secure API interactions with **OpenAI** and Serper Dev Tools.

LabelChain Rewards: Improving AI Systems One Dataset At a Time

Feb 2024 - Feb 2024

- Built a **decentralized platform** for dataset image segmentation, utilized Aptos/smart contracts for automated and validated reward distribution and the **React** ecosystem with design libraries for a modern frontend
- Conferred with two peers at Penn Blockchain to infuse IPFS for secure data storage and The Graph to query hash data streamlines