

HUI PENG JOHN YAO

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Github: <https://github.com/Hui-Peng-John-Yao>

EDUCATION

University of California, Los Angeles (UCLA)

B.S. in Computer Science – Incoming Freshman, Fall 2025

Thomas Jefferson High School for Science and Technology (TJHSST)

Graduation: June 2025 | GPA: 4.55 (Weighted) | SAT: 1580

Relevant Coursework:

- Computer Science: Foundations of Computer Science (A), AP Computer Science (A), Artificial Intelligence (A), Mobile and Web Application Development Research Lab (A)
 - Math & Stats: AP Calculus BC (A), AP Statistics (A), Linear Algebra
 - Science: AP Physics C: Mechanics, Electricity and Magnetism (A)
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CERTIFICATIONS

- AWS Certified Cloud Practitioner
 - Udemy: The Complete Full-Stack Web Development Bootcamp
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SKILLS

- **Languages:** Python, R, Java, HTML, CSS, JavaScript, GDScript
 - **Tools & Frameworks:** Git, AWS, React, Bootstrap, PostgreSQL, Tailwind, Express
 - **Technologies:** DynamoDB, Lambda, Google Drive API, Alexa Skills Kit, OAuth2, IAM, S3, Cloudfront, Route 53
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PROJECTS

Alexa-Powered Voice Journal Assistant

Personal Project | Python, AWS Lambda, Google Drive API, DynamoDB, Alexa Skills Kit, IAM

- Developed an AWS Lambda function in Python that uses OAuth2 to securely access and parse journal entries from a private Google Sheet each evening, then stores the tasks in DynamoDB
- Designed a second Lambda function to retrieve tasks from DynamoDB and sync them with a custom Alexa Skill
- Created and published the skill using the Alexa Developer Console, enabling voice interaction through commands like “Alexa, what are the tasks from John’s Journal today?”

Arcane Chess

Personal Project | Godot, GDScript

- Designed and developed a game in GoDot that combines the classic gameplay of chess with a card and mana system.

Personal Site

Personal Project | Git, React, S3, Cloudfront, Route 53

- Designed and developed my personal site at huipengjohnyao.com using React.js
- Hosted site on a S3 bucket
- Registered a domain on Route 53 and connected hosted zone
- Leveraged Cloudfront and Certificate Manager to verify domain and secure HTTPS

Published Research

Personal Project | R

- Designed a survey using standard tools such as the Brief-COPE to collect data through the online survey tool Centiment

- Analyzed data using R, running tests including ANOVA, paired T, and Chi-Squared
 - Wrote and published a paper titled “The Role of Game-Playing and Coping Styles in Mitigating Stress Among Students” to the Whitman Journal of Psychology
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LEADERSHIP & TECHNICAL ACTIVITIES

Woodwind Captain – TJHSST Marching Band

- Led and mentored 40+ musicians; developed lesson plans and onboarding guides for new members
- Organized sectionals and team-building activities, including card games to foster collaboration

Science Olympiad Team Member (9th–11th Grade)

- Competed in engineering events including Experimental Design and Thermodynamics
- Earned 20+ medals at regional and national competitions