

Jing HUANG

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EDUCATION

New Jersey Institute of Technology

Aug 2024 - Dec 2026 (Anticipated)

Master of Science in **Artificial Intelligence** (Part-Time)

GPA: 3.72/4.0

- Courses: Natural Language Processing, Deep Learning, Machine Learning, Data Mining, Reinforcement Learning, Big Data

University of Illinois at Urbana-Champaign

Aug 2018 - Dec 2022

Bachelor of Science in **Computer Engineering**

GPA: 3.02/4.0

- Courses: Database Systems, Computer Systems Engineering, Data Structure, Algorithms and Models of Comp

EXPERIENCE

New Jersey Institute of Technology, Newark, NJ

July 2023 - Present

Web Developer

- Integrated **Openclaw AI agents** into Slack workflows to automate code reviews, establishing a collaborative multi-agent system that accelerated team feedback loops.
- Accelerated the software development lifecycle by adopting **Cursor** for AI-assisted coding, integrating it into daily team engineering practices for rapid prototyping and debugging.
- Managed enterprise hosting environments via **Acquia SSH**, executing complex configuration synchronizations (config export/import) and database alignments securely across dev, staging, and production servers.
- Architected scalable **React** components and engineered backend data integrations using Workfolio APIs to dynamically manage and render data for 2,300+ user profiles.
- Orchestrated system-wide data migrations, implementing **Elasticsearch** integrations to optimize data querying and overall system performance.
- Developed automated **PHP** scripts to systematically audit 30,000+ endpoints, programmatically resolving critical accessibility issues and purging dead URLs to optimize server storage.

OTB English, Los Angeles, CA (Remote)

May 2023 - Aug 2024

Co-Founder & Project Manager

- Engineered an LLM-powered chatbot integrated with proprietary Business English curriculum via custom data pipelines, enabling context-aware speaking practice for students.
- Directed technical development of a real-time push-dictionary, utilizing an Amazon database (**RDS**) to securely index and retrieve complex business phrases.
- Managed the Software Development Lifecycle (SDLC) for an engineering team of 10 developers using **Jira**, leading agile sprints, conducting code reviews, and debugging application logic for reliable deployments.
- Defined technical roadmaps and architecture, translating business requirements into scalable engineering tasks while actively recruiting talent to scale the team.

Spurlock Museum of World Cultures at Illinois, Champaign, IL

Jan 2021- Sept 2022

Information Technology Assistant

- Participated in design sprints and developed user-friendly web pages and features utilizing HTML5, CSS3, and JavaScript, enhancing the museum's online presence.
- Conducted validation of backend databases and implemented optimizations to improve server performance on a monthly basis, utilizing PHP and jQuery.
- Provided cross-functional support for the museum, addressing and resolving technical issues on a daily basis to ensure smooth operations across all departments.

PROJECTS

Heartbeat-synced Glowing Heart, Mother's Day Gift Project, Newark, NJ

May 2026

- Engineered a custom, Wi-Fi-enabled **IoT** gift powered by an ESP32 microcontroller, seamlessly integrating a breakout board and WS2812b LED lightstrips to simulate a heartbeat.
- Developed a companion IOS application featuring an integrated **Claude AI** pipeline to analyze the incoming heartbeat data and allow the user to customize the device's lighting to reflect different moods.
- Built a custom casing using Makerspace tools, combining a laser-cut white acrylic box glued with a hand-finished, SLA 3D-printed transparent heart.

Distributed Big Data Processing Pipeline, NJIT, Newark, NJ

May 2026

- Architected and deployed a fully distributed, 4-node Hadoop cluster (1 Master, 3 Workers) on **AWS EC2** (Ubuntu) to process large-scale datasets.

- Engineered a custom **Java-based MapReduce** application to ingest and aggregate a 792MB dataset of over 6.4 million flight records, implementing robust exception handling to parse raw CSVs and filter invalid data during the Map phase.
- Configured core infrastructure components, including **HDFS** and **YARN**, managing secure, passwordless SSH communication across the cluster to optimize distributed compute performance and data shuffling.

Immersive Gallery, AI Tinkerers Claude Hackathon, New York, NY

March 2026

<https://immersive-gallery-five.vercel.app/>

- Awarded 3rd Place for engineering an immersive, infinite-canvas digital gallery that redefines interactive media viewing.
- Integrated a **Claude**-powered "Gallery Assistant" that dynamically alters the environment in real-time, allowing users to instantly change colors, layouts, frames, and visual effects via natural language prompts.
- Architected **context-aware UX** interactions that automatically trigger relevant background music, color-matched floating emojis, and ambient background shifts whenever a user zooms in on a specific image.

Althy, Bentley University Incubator Program, Waltham, MA

Sept 2025 - Feb 2026

<https://www.althypplanner.com/>

- Engineered the full-stack architecture for an AI-powered student wellness platform, integrating an **LLM**-driven chatbot designed to process natural language inputs and dynamically track student well-being metrics.
- Built secure data integration pipelines by implementing OAuth 2.0 Single Sign-On (SSO) via **GCP** and **Azure**, enabling seamless synchronization with Google Workspace and Microsoft Outlook calendars for automated, AI-driven syllabus parsing.
- Accelerated the software development lifecycle utilizing AI-assisted tooling (**Cursor**) to rapidly prototype and deploy scalable backend services across Vercel and Railway.
- Shipped live beta iOS and web applications to production via the Apple Developer Program, successfully securing Phase 1 & 2 incubator funding and delivering high-impact technical demonstrations to tech communities.

SKILLS

- **AI & Machine Learning:** TensorFlow, PyTorch, scikit-learn, LLM Integration, AI Agents, AI-Assisted Development, Natural Language Processing (NLP), Prompt Engineering
- **Coding Languages:** Python, Java, C, C++, Swift, PHP, HTML5, CSS, JavaScript, Typescript, Twig
- **Cloud & Server:** AWS (EC2), Google Cloud Platform (GCP), Azure, Hadoop, HDFS, YARN, SSH/Remote Server Management
- **Frameworks & Databases:** Node.js, React.js, Django, MapReduce, MySQL, MongoDB, PostgreSQL, Elasticsearch
- **Certifications:** Agentic AI: Architectures, Frameworks, and Applications, Context Engineering for Developers, Generative AI: Building an AI-First Mindset, Google User Experience (UX) Design, React Front-End Web Dev, Graphic Design

ACTIVITIES

Startup Grind, New York, NY

Dec 2025 - Present

Active Member & Guest Speaker

- Featured as a guest panelist at Columbia University, sharing insights on the founder journey and startup building with student innovators.
- Delivered live startup pitches and actively participated in diverse ecosystem events, including executive roundtables and Tech+Art showcases.
- Drove community engagement by evangelizing the organization and actively recruiting new founders and tech professionals to join the network.

Asian American and Pacific Islander Employee Resource Group, Newark, NJ

May 2025 - Present

Website Coordinator

- Maintained AAPI home and past event pages and designed flyers for various events: <https://www.njit.edu/aapi/>