

# JING GAO

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## Education

### Washington University in St. Louis

*B.S. in Computer Science, double major in Entrepreneurship*

**Aug. 2023 – Expected 2025**

*St. Louis, MO*

### Purdue University

*B.S. in Computer Science, double major in Mathematics*

**Aug. 2022 – Expected 2025**

*West Lafayette, IN*

## Relevant Coursework

- OO Programming
- Discrete Math
- Machine Learning
- Program in C
- Data Structures & Algorithms
- Adversarial AI

## Certification

### Professional Certificate Program: Large Language Models

Databricks (edX) 2024

### Large Language Models: Foundation Models from the Ground Up

Databricks (edX) 2024

### Large Language Models: Application through Production

Databricks (edX) 2024

### Group 2.Social Behavioral Research Investigators and Key Personnel

CITI Program 2023

### Mathematics for Machine Learning: Linear Algebra

ICL (Coursera) 2022

## Publication

Blair, J., & Gao, J., & Kishimoto, K. (2023). **Perceptions of Artificial Intelligence in College: A Case Study of Purdue University Liberal Arts Professors.** Purdue 2023 Spring Undergraduate Research Conference. 2023 Abstract Booklet (PDF)

[Jack Blair, Jing Gao, Kian Kishimoto are three first authors]

## Experience

### CambioML

**Jan. 2024 – Apr. 2024**

*Chief of Staff*

*San Jose, CA (Remote)*

- Executed go-to-market strategies, collaborating with marketing and sales teams to increase product reach and customer engagement.
- Managed community relations, fostering a positive and interactive community environment, and gathering valuable feedback for product improvements.
- Contributed to software development projects, writing code and participating in code reviews to maintain high standards of software quality.

### Washington University in St. Louis

**Oct. 2023 – PRESENT**

*Research Assistant*

*St. Louis, MO*

- Utilized Julia programming language for developing and implementing data processing pipelines.
- Installed and maintained jupyter server application with encrypted token access.

### Research Institute of Tsinghua, Pearl River Delta

**Jun. 2022 – Aug, 2022**

*Research Assistant & Project Manager Assistant*

*Guangzhou, Guangdong (China)*

- Constructed & evaluate machine models in severe environment.
- Sampled & analyzed data, then Specified & optimized mathematical models.

## Research & Projects

### PII PHI classification model | Large Language Model, Fine-tune and Privacy

**Jan. 2024 – PRESENT**

- Led a research project focusing on fine-tuning a small to medium-sized language model for automatic classification and tagging of personal information in texts, addressing privacy concerns in the healthcare sector.
- Developed a tool for medical practitioners to minimize the risk of inadvertently disclosing sensitive patient information, aligning with legal requirements for patient confidentiality and data protection.
- Employed advancements in transfer learning and natural language processing to achieve an optimal blend of performance and practicality in data management and protection strategies.

WrapperAI | *Large Language Model, Trustworthy and Secure*

Dec. 2023 - PRESENT

- Developed a SaaS machine learning solution to optimize and secure the use of large language models (LLMs).
- Implemented dual-layer protection to reduce the risk of inadvertent data exposure.
- Designed a mechanism that ensures ethical interactions and provides a sensitive privacy filter for AI, prompting a safer and more responsible use of advanced AI for businesses.

Stockfish Chess Analysis | *Julia, Python, API, Data Analysis*

Oct. 2023 - PRESENT

- Developed and optimized a large-scale data processing algorithm using Julia, handling pgn files of 200GB, significantly enhancing speed and accuracy.
- Revamped the original file scanning algorithm in Julia, achieving a 100x improvement in processing speed and efficiency.
- Designed and conducted experiments with game files in the evaluation engine, utilizing Julia and game theory concepts to analyze and improve strategic game outcomes.

Saga: AI-Powered Writing Assistant | *ReactJS, TypeScript, Large Language Model*

Apr. 2023 - Apr. 2023

- Developed an AI-powered assistant to solve pain points in the writing process.
- Implemented unique ID system and name completion function for characters.
- Utilized design and targeted user-friendly interface for educational purposes.
- Prepared for entrepreneur start-up.

HONR 29900: AI and Education Research | *AI, Creative Writing, Survey*

Jan. 2023 - May 2023

- Investigated the impact of AI (e.g., ChatGPT) on education.
- Coordinated and organized research proposal and qualitative data collection.
- Completed CITI Ethic Research Certificate.

## Technical Skills

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**Programming Languages:** Python, Julia, Java, C, HTML/CSS, JavaScript, Shell  
**Developer Tools:** VS Code, Git, Latex, Markdown, Google Cloud Platform, Amazon Web Service  
**Technologies/Frameworks:** Linux, GitHub, ReactJS, VueJS, WordPress  
**Speak Languages:** Chinese (Native), English (Proficient), Esperanto (Intermediate), Japanese (Beginner)

## Honors & Prizes

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|---|--|------|
| Hack WashU 2023                                 | Best Use of Google Cloud                     | 2023 |
| Purdue Spring Undergraduate Research Conference | Honors College 3rd Place                     | 2023 |
| HackDartmouth VIII: Into The Multiverse         | Contrary Capital - Start Up Prize and 2 more | 2023 |

## Leadership / Extracurricular

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IEEE – Purdue Aerial Robotic Team (PART)

Aug. 2022 – May 2023

ODLC Competitive Team Member

Purdue University

- Trained and applied an object detection model to accurately identify ground targets for competitive scenarios.
- Optimized the model's performance and deployed it on edge computing devices to ensure real-time operational capability.