KATHERINE REN

COMPUTER SCIENCE RESEARCHER
WORK AUTHORIZATION: US CITIZEN

CONTACT

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SKILLS

Programming:
- Java
- Python
- SQL
- Microsoft Excel
- Natural Language Processing
- Python sklearn
- AI Safety

Other
- Professional Writer (published author)
- Award-winning Painter
- Graphic Design/UI/UX

EXTRACURRICULARS

Princeton University
- Princeton EA **Organizer** (2022-2023)
- Princeton Quadrangle Club Officer
- **Staff Writer** on Princeton's weekly newspaper, *NassWeekly*
- **Staff Artist** on Princeton's weekly newspaper, *NassWeekly*
- Princeton AI Alignment Club Member
- Princeton AI Club Member

AWARDS/ CERTIFICATIONS

- **Oracle Certified Associate (OCA) Java Programmer** since **age 13** (2018)
- **Gold Award,** *China-US International Art Festival* (2021)
- **3rd Place,** *New Jersey Eastern Seaboard Archery Championships* (2019)
- **Gold Award,** *National Japanese Examination* (2019)

LANGUAGES

English ▬▬▬▬▬ (Native)

Chinese ▬▬▬ (Proficient speaker)

Japanese ▬▬▬ (Proficient speaker)

SUMMARY

- **Princeton University** Undergraduate pursuing a **Computer Science BSE Degree** and an **African American Studies Minor**
- **Oracle Certified Associate (OCA) Java Programmer** since **age 13**
- Former internship experience in **three different companies and fields**
- Specializes in **interdisciplinary work**
- Extensive extracurricular activities and outstanding leadership experience
- **Published** a short story anthology book with Princeton University's printing press

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WORK EXPERIENCE

Researcher
Princeton Center of Information and Tech Policy
5/2024 - 8/2024

- Worked on **AI/ML research** regarding the effects of **distribution shifts** on ML models that are trained on **social science data**, recreated and debugged complex ensemble models built with **R** and **Python**, performed in depth **ethical analysis** of the Fragile Families Challenge and AI/ML's role in **future tech policy**

Data Science Researcher
Data Nutrition Project
6/2024 - 9/2024

- Worked on project collaborating with **New Commonwealth Fund (NCF)** to **investigate** the resource allocation of racial equity pledges made by large corporations in order to **create a dataset** that prioritizes transparency and accountability

AI/ML Intern
Omni Federal
5/2023 - 12/2023

- Fixed fronted bugs using **Javascript, CSS,** and **React** on Gitlab
- Interacted with and made queries with **NoSQL** database **DynamoDB**
- Wrote curriculum, designed quizzes and created programming labs for teaching **AI/ML Skills** to beginners using **Python**
- Researched **AI integration** for individualized user experiences and automatic quiz generation
- Designed and proposed a new framework for badging system

Data Analyst Intern
American National Standards Institute
7/2021 - 9/2021

- Analyzed and compiled data for corporate use from the ANSI **FileMaker** database using **SQL Server** and **Excel**

EDUCATION

Princeton University, School of Engineering and Applied Science, Princeton NJ
Bachelor of Science and Engineering (BSE) Degree in Computer Science (Spring 2026)
Certificate in African American Studies (Spring 2026)
Cumulative GPA: 3.957 / 4.0
Relevant Coursework: Java, Python, C++, Data Structures, Algorithms, Computer Science Theorems, Programming Systems, Artificial Mechanical Intelligence, Natural Language Processing

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PUBLICATIONS/APPEARANCES

- *Two Children,* **short story anthology** with blurb by **award-winning screenwriter Christina Lazaridi,** Moon Press, 2023
- "Fox Among Bears," Positions Zine, 2023
- "Bookshop," cross-published in magazines "Nassau Literary Review" and "figments," 2022
- "Dystopian Fiction," Scholastic Art and Writing Awards, 2021
- "Apple Pie," Scholastic Art and Writing Awards, 2021