

# Leona Chen

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## EDUCATION

### The Pennsylvania State University | Schreyer Honors College

College of Engineering, B.S. in Computer Science, Minor in Mathematics | GPA: 3.79/4.00

University Park, PA

Graduation May 2027

**Relevant Courses:** Data Structures, Object Oriented Programming, Discrete Math, Systems Programming, Computer Vision

## SKILLS

**Programming Languages:** Java, Python, C, Javascript, Swift, MATLAB, SQL, HTML/CSS, LaTeX

**Frameworks & Libraries:** React.js, NumPy, pandas, Tkinter, ChromA, p5.js, Swing, JDBC, LangChain, TensorFlow

**Technologies & Tools:** VS Code, Linux, Xcode, Google Colab, Git, Hugging Face, Microsoft Office, Power BI

**Spoken Languages:** English (Native), Mandarin Chinese (Advanced)

## WORK EXPERIENCE

### Penn State Department of Mathematics

Technology Intern

Remote

May 2025 - Present

- Enhanced Matrices, Multivariable Calculus, and Ordinary and Partial Differential Equations online Pressbooks
- Updated digital textbooks to comply with Web Content Accessibility Guidelines by integrating closed captioning
- Embedded interactive learning components using H5P and LaTeX-rendered equations

### Code With Klossy

Artificial Intelligence/Machine Learning Instructor Assistant

Remote

March 2025 - Present

- Taught basic machine learning principles to middle/high school students of traditionally underrepresented genders in tech
- Instructed on supervised learning, image classification, sentiment analysis, neural networks, semantic search, and RAG

### James Z. Wang Research Group

Research Intern

University Park, PA

January 2025 - Present

- Researched biases present in LLMs regarding emotions within the area of affective computing
- Analyzed published research literature to support hypothesis formation and determine metrics for biases
- Secured funding from the NASA Pennsylvania Space Grant Consortium PSU Undergraduate Research Internship Program

### Penn State Global

International Student Services Assistant

University Park, PA

September 2024 - Present

- Provided front-desk assistance to Penn State's over 9,000 international students and scholars
- Worked closely with International Student Advisors to coordinate appointments and handle emergencies
- Utilized LLMs to filter and organize common student queries into an FAQ page for Penn State Global's website

## PROJECTS

### RAGatha @ HackPSU (1st Place Winner) | Python, LangChain, OpenAI, ChromA, Tkinter, NumPy, pandas

October 2024

- Developed RAG chatbot using LangChain and OpenAI to answer queries based on ICDS ROAR User Guide
- Implemented vector-based semantic search by embedding user guide content into ChromaDB to optimize retrieval speed
- Designed and built an interactive GUI using Tkinter library to enhance accessibility and usability

## LEADERSHIP & INVOLVEMENT

### Girls Who Code

College Loop Co-President, Student Leadership Council Member, Club President

University Park, PA

May 2023 - Present

- Led Penn State's chapter of Girls Who Code, creating a student organization fostering community for women in tech
- Collaborated with national Student Leadership Council to write strategic proposal for future Girls Who Code programs
- Directed after-school club meetings at Upper St. Clair High School, creating an inclusive learning space for students

### Nittany Lion Consulting Group

Associate Consultant

University Park, PA

November 2024 - Present

- Collaborated with team and company executives to deliver solutions for client concrete 3D printing startup X-Hab 3D
- Conducted market research, analyzed competitors, interviewed critical stakeholders, evaluated business model
- Selected from a competitive applicant pool via behavioral and case interviews through Consultant Training Program

### Penn State Women in Engineering Program

Mentee

University Park, PA

August 2024 - Present

- Participated in a four-day orientation program for first-year engineering students
- Attended facilitated study groups for computer science courses to strengthen understanding of material
- Engaged in "WEP Wednesday" sessions throughout the year to explore academic and career resources

### Steel City Codes

Executive Director of Finance & Pittsburgh Regional Director

Pittsburgh, PA

May 2023 - June 2024

- Wrote grant applications to support nationwide computer science education/diversity programs and hackathons
- Organized and taught Python and Java computer science summer camp reaching 200+ students and volunteers
- Managed and coordinated 17 after-school chapters throughout the Greater Pittsburgh region