

# Hanjun Xiao

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## EDUCATION

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### University of Virginia

Bachelor of Science - Computer Science, Bachelor of Arts - Economics

Cumulative GPA: 3.885/4.0; Dean's List 2023-2024

Charlottesville, Virginia

Aug, 2023 - May, 2027

#### Course Taken at UVA:

- Math & Physics: Linear Algebra, Discrete Math, Probability, From Data to Knowledge
- CS Core: Data Structure and Algorithm I & II, Computer and System Organization I & II, Intro to Cyber Security, Software Development Essentials, Software Engineering.
- Econ Core: Intro & Intermediate Microeconomics, Macroeconomics

## RESEARCH

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### Research Assistant - University of Virginia

Charlottesville, Virginia

[Enhance learning through Interactive GUI](#)

Supervisor: [Heze Chen](#), Assistant Professor, School of Engineering.

- Design graphical user interfaces (GUIs) using Python and MATLAB to visualize multivariable calculus and linear algebra concepts.
- Demonstrate application during lecture to over 200 students each semester, serving as a tool to help the students gain a better understanding of mathematical concepts.

## PROJECTS

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### [Eggs By The Dozen](#) -

- Partnered with a local farmer to develop a machine learning-based tool that automates the detection of parasites in eggs, addressing a costly and labor-intensive issue.
- Built a web platform capable of analyzing egg images and identifying parasite presence based on shape recognition, significantly reducing manual inspection time.

### [ToDoList](#) -

- Building a task management app using Flask and SQL (database).
- Frontend developed with HTML, CSS, and JavaScript, allowing users to add and delete tasks.
- Upcoming features include calendar API integration and drag-and-drop task functionality for seamless user experience.

### [Restaurant Recommender](#) -

- Leveraged the Google Maps API to retrieve restaurants within a 2000-meter radius, using Charlottesville as an example to find up to 1000 restaurants.
- Incorporated machine learning to analyze more than 10 restaurant features and recommend the top match based on similarity.
- Designed the program to enhance dining decisions with intelligent and location-aware suggestions.

## WORK EXPERIENCE

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### Software Engineer Intern (directly reported to company CEO) - LinShen

Tianjin, China

[Truck Application](#)

- Designed and implemented a logistics control program, centralizing truck status updates in real-time to streamline operations for a large trucking company.
- Delivered a solution still in use by the company, enhancing workflow, improving decision-making with real-time data, and saving hundreds of minutes for the truck driver.

## ADDITIONAL

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**Computational Skills:** Java, Python, HTML/CSS, C/C++/C#, R, Javascript

**Technical Skills:** Flask, SQL, numpy, matplotlib, pandas, scikit-learn, React, Android Studio

**Languages:** Fluent in Chinese, English

**Certifications & Training:** Responsive Web Development Certification (freeCodeCamp),  
Learning Machine Learning, NLP Bootcamp MLOPS & Deployment (Udemy).