

# Feiyu Zhou

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## Education

### Xi'an Jiaotong University, China

Sept 2024 – May 2029(Expected)

*Ph.D in Department of Engineering Mechanics, School of Aerospace*

*Multiscale Mechanics and Medical Science Lab*

*State Key Laboratory for Strength and Vibration of Mechanical Structures*

### Lanzhou University, China

Sept 2020 – June 2024

*Bachelor in Mathematics and Applied Mathematics, Cuiying Honors College*

◦ GPA: 3.83/5.0 ([pdf](#) [🔗](#))

◦ **Coursework:** Computer Architecture, Comparison of Learning Algorithms, Computational Theory

### Hengshui High School Anhui Campus, China

Sept 2017 – May 2020

*Senior in Excellence Class*

## Honors and Awards

- **February 2024:** Honorable Mention in the 2024 American College Mathematical Contest in Modeling.
- **February 2023:** Achieved First Prize in the "Higher Education Society Cup" National College Students Mathematical Contest in Modeling for the Gansu Region, showcasing outstanding skills in applied mathematics.
- **December 2021:** Awarded the Second-Class Scholarship for Outstanding Students at Lanzhou University for the academic year 2020-2021, in recognition of academic excellence and leadership.
- **September 2021:** Earned Second Prize in the Thirteenth National Mathematics Competition for College Students (Mathematics Class A) in China, demonstrating a strong foundation in mathematical theory and application.

## Experience

### Software Engineer

Cupertino, CA

Apple

June 2005 – Aug 2007

- Reduced time to render user buddy lists by 75% by implementing a prediction algorithm
- Integrated iChat with Spotlight Search by creating a tool to extract metadata from saved chat transcripts and provide metadata to a system-wide search database
- Redesigned chat file format and implemented backward compatibility for search

### Software Engineer Intern

Redmond, WA

Microsoft

June 2003 – Aug 2003

- Designed a UI for the VS open file switcher (Ctrl-Tab) and extended it to tool windows
- Created a service to provide gradient across VS and VS add-ins, optimizing its performance via caching
- Built an app to compute the similarity of all methods in a codebase, reducing the time from  $\mathcal{O}(n^2)$  to  $\mathcal{O}(n \log n)$
- Created a test case generation tool that creates random XML docs from XML Schema
- Automated the extraction and processing of large datasets from legacy systems using SQL and Perl scripts

## Publications

### Convalent Bond

Sept 2024

*Feiyu Zhou*, Shengying Yue

[Later](#) [🔗](#)

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Sept 2024

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[Later](#) [🔗](#)

## Projects

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### Multi-User Drawing Tool

[github.com/name/repo](https://github.com/name/repo) 

- Developed an electronic classroom where multiple users can simultaneously view and draw on a "chalkboard" with each person's edits synchronized
- Tools Used: C++, MFC

### Synchronized Desktop Calendar

[github.com/name/repo](https://github.com/name/repo) 

- Developed a desktop calendar with globally shared and synchronized calendars, allowing users to schedule meetings with other users
- Tools Used: C#, .NET, SQL, XML

### Custom Operating System

2002

- Built a UNIX-style OS with a scheduler, file system, text editor, and calculator
- Tools Used: C

## Technologies

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**Languages:** C++, C, Java, Objective-C, C#, SQL, JavaScript

**Technologies:** .NET, Microsoft SQL Server, XCode, Interface Builder