

# LINJIE YANG

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## EDUCATION

### University of California, Davis

Aug. 2024 – Present

*Bachelor of Science in Applied Mathematics and Data Science*

Davis, CA

- **GPA:** 3.63/4.00 | **Honors:** Dean's List, Letters & Science (Winter 2026)
- **Relevant Coursework:** Implemented Data Structures in C (A+), Discrete Math for CS (A+), Numerical Analysis (A), Vector Analysis (A), Linear Algebra, Probability & Statistics, Theory of Computation

### Yali High School

Sep. 2021 – Jun. 2024

*High School Diploma*

Changsha, China

- **Awards & Honors:** NEC National Top Scoring Individual Gold Award, AMC 10 & 12 National Top-Ranked Scorer

## TECHNICAL SKILLS

**Languages :** C, C++, Python, UNIX Shell Scripting, LaTeX

**Tools & Concepts :** VSCode, Git/GitHub, Autokey, Data Structures, Algorithms, Numerical Analysis

## PROJECTS

### System Workflow Automation Scripts | *Python, Autokey, UNIX*

Fall 2025

- Engineered custom automation scripts using Autokey to optimize personal daily workflows, resolving hardware-software friction by remapping mouse buttons for rapid multi-language input switching.
- Developed an automated screenshot processing pipeline that captures, copies, and directly parses images into interface, turning a multi-step manual process into a single click.
- Designed conditional logic to manage automated application launches (VSCode, Canvas, Notion) upon login, successfully debugging cross-application conflicts to ensure stable execution.

### Weather-Prediction Machine Learning Model | *Python, Data Science*

Jan. 2024 – Nov. 2024

- Collaborated with a 5-member team in the AISC Project Cycle to architect and deploy a weather forecasting model from scratch.
- Executed data preprocessing pipelines, iteratively trained the model, and evaluated performance metrics over a continuous 10-month development cycle.

### Mathematical Modeling System (HiMCM) | *Python, Mathematical Modeling*

Nov. 2023

- Led a 4-person team in the High School Mathematical Contest in Modeling (HiMCM) to develop a comprehensive mathematical solution analyzing complex real-world systems.
- Constructed the core mathematical framework and programmed Python scripts to generate algorithmic data visualizations for the final technical report.

## EXPERIENCE

### Caixin Financial Holdings

Summer 2024

*Program Trainee (Sparkling Redstar)*

China

- Analyzed large-scale financial operations and cross-departmental coordination through an intensive immersion program covering banking, securities, and fund subsidiaries.
- Collaborated in a team-based financial workshop, formulating strategic insights that awarded the team 1st place in the final cohort presentation.

### Yali High School International Department

Jan. 2024 – May 2024

*Academic Tutor*

Changsha, China

- Served as a supplemental instructor, breaking down complex quantitative concepts to teach AP Calculus and AP Microeconomics to high school seniors.
- Facilitated weekly technical review sessions, improving student comprehension and test readiness.