

Zhiwei Zhang

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Github: <http://github.com/Zhiwei-Z>

EDUCATION

Sophomore at UC Berkeley (2018 - 2021)

GPA: 4.0

- CS Classes: Data Structure, Machine Structure, Algorithms, Graduate Algorithms, Intro to AI, Machine Learning, Database (fall 2019), Operating System (spring 2020)
- Math Classes: Linear Algebra, Discrete Math, Probability & Random Processing, Real Analysis, Numerical Analysis (fall 2019)
- Student Club: ICRA RobotMaster, UGTCS (Undergrad Theoretical CS Reading Group)

HONORS AND AWARDS

- USA Computing Olympiad Gold
- Silver Medalist in USA Physics Olympiad (Around top 100).
- Various Awards in math competitions (AMC, AIME, Math League, Stanford Math Tournament, etc)

ACADEMIC EXPERIENCE AND PERSONAL PROJECTS

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| Google Foobar Challenge, 2017 <ul style="list-style-type: none">• Pass all levels• Involve combinatorial concepts | UGTCS Club <ul style="list-style-type: none">• Studying selected Theoretical CS concepts• Presented Spectral Graph Theory & Electric Flow in Graph Theory |
| Theoretical CS Notes, ongoing <ul style="list-style-type: none">• Take notes of a variety of Theoretical CS concepts• Matroid, Parity Learning, Compressed Sensing, etc.• Available on Github | Battery-Recycle iOS App, 2017 <ul style="list-style-type: none">• Use AWS to store customers' requests to pick up batteries• Volunteers can respond to nearby requests and earn service hours• Swift for UI, Java for backend |
| ICRA RobotMaster 2019 <ul style="list-style-type: none">• Design path planning programs for robots in the competition• Use finite state machines as a decision model for the robot | AI for Plant Kernel Classification (From Topcoder), 2019 <ul style="list-style-type: none">• Use neural network to determine if a seed will germinate or not• Attempted SVM, simple Neural Net, and Convolved Neural Net• Researched on similar topics |

TECHNICAL SKILLS

Fluent in Java, Python, Latex, Capable of using C, Html, RISC-V