

# MAE WANG

GRADUATION DATE: SPRING 2022

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## EDUCATION

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### University of California, Berkeley (UC Berkeley)

*B.A. in Computer Science, present*

3.28 GPA

- Foundations of Computer Graphics
- Machine Structures
- Data Structures
- Efficient Algorithms and Intractable Problems
- Structure and Interpretation of Computer Programs
- Linear Algebra and Differential Equations
- Discrete Mathematics and Probability Theory
- Adaptive Instruction Methods in Computer Science

## EXPERIENCES

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### Girls Who Code Immersion Program

*GE Digital, June 2016 - August 2016*

- Designed a virtual reality app using Unity3D and C#
- Implemented a tower defense game inspired by "Plants Vs. Zombies" using Python
- Built a prosthetic Arduino robotic arm with the ability to extend/retract
- Programmed on a Parallax Activitybot Robot using C++

### LA Hacks Hackathon

*UCLA, March 2017*

- Developed functional college class organizing AI algorithm program with Java

## PROJECTS

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### Web Development

- Implemented backend of "Google Maps" web mapping application using real-world mapping data and Java
- Created a visualization of restaurant ratings with AI and the Yelp academic dataset using Python
- Built a personal website with HTML, CSS, and the JavaScript library p5.js
- Redesigned and constructed [www.azlyrics.com](http://www.azlyrics.com) using HTML and CSS

### iOS App Development

- Built a "Snapchat" app with cloud-based record of snaps using Swift and FireBase
- Constructed a beverage searcher app utilizing crowdsourcing and cloud using Swift and FireBase
- Implemented a cryptocurrency ticker from the Cryptonator RESTful API using Swift

### AI Development

- Built an AI that solves puzzles, such as "8-puzzle problem", by finding the shortest possible solution using Java
- Developed a program to estimate the value of the percolation threshold via Monte Carlo simulation using Java
- Designed a 2D tile-based game that pseudorandomly generates worlds and has AI "chaser enemies" using Java

### Art Portfolio: [maewangart.weebly.com](http://maewangart.weebly.com)

- Learned and mastered many art forms, including sketch, pastel, oil paint, and watercolor for 9+ years

## SKILLS

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### Languages:

Java, Python, C, JavaScript, Swift, CSS, HTML 5, SQL, Scheme

### Programs and Tools:

Git/GitHub, Unix, Linux, Vim, JQuery, Xcode, Firebase, Unity3D