ZHAOMENG CHEN

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EDUCATION

University of California, Los Angeles, Los Angeles, CA *Expected June 2025*

Math of Computation BS and Statistics BS

- **GPA 3.8**
- **Mathematical Coursework:** Real Analysis, (Graduate) Complex Analysis, Numerical Analysis, Abstract Linear Algebra, Differential Equations, Probability and Statistics, (Graduate) Linear Programming.
- **Computational Coursework:** Machine Learning, Systems and Signals, Neural Networks and Deep Learning, Theory of Computing

University of Minnesota, Twin Cities, Minneapolis, MN *September 2021 - May 2022*

College of Continuing & Professional Studies

- **GPA** 4.0
- **Honors:** Dean's List 2022
- **Mathematical Coursework:** Enumerative Combinatorics, Mathematical Modeling, Abstract Algebra, Linear Algebra
- **Computational Coursework:** Algorithms and Data Structures, Machine Architecture and Organization

PROJECTS

Program for Supervised and Unsupervised Classification *December 2023*

Linear Programming, UCLA

- Designed and programmed an algorithm that classifies labeled and unlabeled data
- Synthesized research paper in LaTeX and analyzed the efficiency and accuracy of the algorithms

OpenTalk *February 2023*

Treehacks, Stanford

- Created an iOS application that utilizes AI and AR to simulate and help users practice stressful social situations
- Planned and collaborated in a small team to create a working prototype in under 36 hours
- Learned Swift to develop the backend for communication between the iOS app and OpenAI API
- Collaborated and helped troubleshoot the frontend augmented reality using Blender and ARKit

Efficient Generation of Sudoku Puzzles of 4 Difficulties *September 2021 - May 2022*

Mathematical Modeling, University of Minnesota

- Organized project into manageable steps by creating a detailed research plan
- Developed, programmed, and optimized algorithms that generated random sudoku puzzles of 4 difficulties
- Evaluated experimental data using mathematical and statistical techniques to determine difficulty of sudoku puzzles
- Synthesized research paper in LaTeX detailing technique and time complexity of algorithms

ADDITIONAL SKILLS

Computer: Proficient in Python, Java, C, C++, MATLAB, LaTeX, Raspberry Pi

Languages: Native in English and fluent in Chinese