Min Choi

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EDUCATION

University of California, Los Angeles   **Expected June, 2024**
B.S. Computer Science and Engineering   *Los Angeles, CA*

- **Relevant Coursework**
  - **Computer Science**

    Parallel and Distributed Computing, Algorithms and Data Structures, Computer Organization, Software Construction, Operating Systems, Computer Network Fundamentals, Programming Languages, Formal Languages and Automata Theory, Logic Design of Digital Systems
  - **Machine Learning and Data Science**

    Database Systems, Computational Genetics, Data Mining, Intro to Machine Learning, Intro to Data Science
  - **Electrical Engineering**

    Computer System Architecture, Digital Design, Digital Electronic Circuits, Electrical and Electronic Circuits, Systems and Signals
  - **Mathematics**

    Probability and Statistics, Discrete Mathematics, Linear Algebra

WORK EXPERIENCE

Los Angeles Community College   **Los Angeles, CA**
Supplemental Instruction Mentor

- A program for undergraduate mentors to supplement learning material for students
- As a mentor, ensured students grasped the core concepts of the course, guaranteeing a comprehensive understanding of the necessary materials.
  - High satisfaction for students after completion of the coursework.
  - Difficult topics clarified so that students absorbed all relevant material.

ACADEMIC PROJECTS

Analysis and Feature Extraction of Song Popularity

- Applied data mining and machine learning concepts to predict potential popularity of songs given a sample dataset from a database of songs
- Analyzed key features on popular songs to extract the elements that most significantly affect the song's popularity
- Utilized ML techniques like logistic regression and grid search to optimize predictions and perform classification.

4-bit Absolute-Value Detector for use in Neural Spike Sorting

- Designed a 4-bit absolute-value detector using key digital electronic circuit design principles. Optimized circuit components using advanced transistor designs like pass transistor logic, transmission gates, and CMOS which improved circuit performance.
- Implemented optimized circuit design on Cadence and conducted simulations on designed circuit.

SKILLS & INTERESTS

- **Skills**
  - ❖ C++, C, Python, Haskell, JavaScript, Java ❖ Django, React, Node.js, HTML, CSS ❖ git, AWS, Docker, Linux ❖ MongoDB, Spark, Hadoop ❖ PyTorch, TensorFlow, Scikit-learn ❖ Verilog, Cadence
- **Interests:** Machine learning; computer building; driving; exploring top-notch eateries; solving puzzles