

# Stier Chen

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## EDUCATION

### University of California, Irvine

Irvine, CA

*B.S in Software Engineering, Minor Statistics*

Sep 2018 - May 2022

- **GPA:** 3.61/4.00
- **Relevant Coursework:** System Design, Algorithms, Data Structures, Machine Learning, Parallel Programming, Techniques of Data Analysis, Linear Algebra, Discrete Mathematics, Probability Theory

### University of Illinois at Urbana-Champaign

Champaign, IL

*M.C.S in Computer Science*

Sep 2022 - May 2024

## WORK EXPERIENCE

### Chefeon Intelligent Technology Ltd

Remote

*Software Engineer Intern*

Jun 2020 – Aug 2020

- Implemented food recipe database using Postgres to ensure optimal performance use of data, including database definition, structure, long range requirement, and operational guidelines.
- Created GUI for users to perform CRUD operations on SQL server backend with C# and the .Net framework.

### UC Irvine CS Department

Irvine, CA

*Peer Tutor for Programming with Software Libraries*

Mar 2019 – Jun 2019

- Led weekly tutor sessions, developed course material, and contributed to the course curriculum development.

### Pioneer E-Bikes Inc

Chino Hill, CA

*Software Engineer Intern*

July 2018 – Sep 2018

- Collected, defined, and translated user requirements into project designs and implementation plans.
- Used Python, HTML, CSS, JavaScript, and Node JS to make code repairs and optimize website functionality.

## RESEARCH EXPERIENCE

### Cal Poly Pomona, SoftCom Lab

Pomona, CA

*Deep Learning Research Assistant*

Aug 2020 – Present

- Developed an efficient system to enable video reverse searching using deep learning and computer vision techniques such as CNN, object detection, image classification, and voice recognition.
- Implemented, experimented and optimized the frame feature extraction algorithms using both image-based and content-based approaches; achieved 91% accuracy on image classification.

### UC Irvine, Hearing Lab

Irvine, CA

*Research Assistant*

Mar 2019 – Jun 2019

- Implemented a program using Python and SQL to collect participants' data and integrated the new data processing framework with two other systems used in the lab.
- Increased the data processing efficiency by 35% compared with the semi-automated approach.

## SELECTED PROJECTS

### Movie Identifier App

- Built a website using JavaScript, HTML, CSS, and Angular to identify movie names via a movie clip.
- Received a patent from U.S. Patent Office for the designed CNN algorithms.

### AudioScribe

- Utilized natural language processing techniques including speech model wav2vec2 and Silero to categorize patient's recording based on their similarity scores to help clinician navigate to exact symptom occurrence.

### Publication

- Q.Chen and Y.Sun. A Multi-Dimensional Video Reverse Search Engine using Computer Vision and Machine Learning Methods. *International Conference on Data Mining and Applications*, inpress.

## ADDITIONAL INFORMATION

**Languages:** Fluent in English and Mandarin

**Technical Skills:** Python (Pandas, NumPy, Scipy, Scikit-learn), Java, SQL, R, C#, Git, PyTorch, TensorFlow

**Interests:** Basketball, NBA, Weight Lifting, Strategy Games