

Owen K. Yang

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EDUCATION

University of California, San Diego

B.S. in Data Science, Minor in Mathematics

GPA: 3.61/4.00

San Diego, California

Expected Graduation, June 2026

- **Related Coursework:** Data Structures & Algorithms, Principles of Data Science, Introduction to Statistical Analysis, Theoretical Foundations of Data Science, Introduction to Research Methods

EXPERIENCE

AT&T Labs

Software Engineer Intern

Middletown, New Jersey

June 2024 – Present

- Designing and Implementing an Android application using **React Native** for Augmented Reality glasses to stream audio and video to a Multi-Modal Model, providing real-time analysis and response to users
- Implemented a **RTSP** server using **Docker** and **Mediamtx** allowing secure real-time streaming
- Implemented 4 CRUD operations in Client

ACM at UC San Diego

Professional Events Director

San Diego, California

May 2024 – Present

- Hosted **LeetCode** workshops to **50+** students where I taught how to approach different coding problems pertaining to Dynamic Programming, Data Structures and Algorithms, and other algorithmic techniques in **Python**.
- Taught System Design and Object Oriented Design to **30+** students where I taught **System Architecture**, **Networking**, and **Design Patterns** in **Java**.

LASR Labs at UC San Diego

Undergraduate Research Assistant

San Diego, California

March 2024 – Present

- Implemented Word Error Rate calculators utilizing **Pandas** and **NumPy** that compute automatic speech recognition model's transcription accuracy on 1000+ audio transcriptions.
- Conducted **Fine Tuning** experiments on Wav2Vec 2.0 LLM and Whisper LLM using **PyTorch** to improve child speech transcription by 30%.

Targify.io

Full Stack Developer Intern

Remote

June 2023 – October 2023

- Deployed a **Google Cloud Function** that creates up to **1000 virtual machines** simultaneously to record and edit personalized videos and created a **Next.js** app that generates unique landing pages for each video.
- Developed a web scraping program using **Selenium** that retrieves information about prospects' work experience and personal profile through LinkedIn and generates a personalized email using OpenAI's **LLM APIs**.
- Designed the front-end UI using Bubble.io, custom **HTML**, **CSS**, and vanilla **JavaScript**.

PROJECTS

Tennis Analyzer | PyTorch, Python, React.js

- Developed an application utilizing **PyTorch** and **YOLO** that tracks players and ball speed and the court key points.
- Finetuned YOLO's pretrained models utilizing a **Low Rank Adaption** PEFT algorithm.

Expense Tracker | MongoDB, Express, Node.js, GraphQL, HTML, Tailwind CSS, React.js, JavaScript | [Link](#)

- Developed a **MERN** stack expense tracker using **MongoDB** and **Mongoose** to store transaction and user information.
- Utilized **Passport.js**, **MongoDB**, and implemented a secure **GraphQL** API for handling user registration, login, and session management.

SKILLS

Programming: Java, Python, JavaScript, HTML/CSS, Kotlin

Developer Tools: Git, Google Cloud Platform, Linux, Node.js, MongoDB

Frameworks and Libraries: JUnit, Flask, PyTorch, React.js, Pandas, Express, React Native