

Collin Chen

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EXPERIENCE

Data Analyst, Kumon

Sep. 2023 - Jan. 2024

Internship

Rowland Heights, CA

- **Processed 19k entries of student achievement data**, including scores, time taken, packet types, and levels, for over **200 students**
- **Automated comprehensive data visualizations** using Google Charts and App Scripts for parent-conference meetings, making it easier to understand and assess student homework habits
- **Programmed an online grading report**, a data entry system that allowed staff to input data more efficiently
- Developed a program that **automated emails based on homework completion**, helping with student engagement and accountability

EDUCATION

University of California, Irvine

Irvine, CA

B.S. in Computer Science, GPA: 4.0/4.0

exp. Jun. 2028

- **Relevant Coursework:** Data Structures and Algorithms Implementation and Analysis, Python Programming and Libraries, Boolean Logic and Discrete Structures, Probability and Statistics for Computer Science

John A. Rowland High School

Rowland Heights, CA

High School Diploma, GPA: 4.43/4.0, Rank 4/486

Aug. 2020 - Jun. 2024

- **Activities:** Programming Club President, Robotics Club Secretary
- **Relevant Coursework:** AP Computer Science A (5), AP Statistics (5), AP Calculus AB/BC (5/5), AP English Language/Literature (5/5)

PROJECTS

everyonesbusy | *Node.js, Express.js, MongoDB, HTML/CSS, JavaScript*

May 2024 - Aug. 2024

- Created a **shared-calendar planning app** intended to resolve conflicting schedules in groups planning for trips
- **Implemented user-authentication with express-session and bcrypt**, real-time event updates with Websockets, and RESTful APIs for frontend and backend communication
- Developed a secure, session-based authentication system using Express-Session, Redis for session storage, and bcrypt for password hashing for user data protection
- **Designed scalable backend structure** using MongoDB, ensuring efficient data management and retrieval for user data and calendar events

RHS CS | *Python, Flutter, Dart, Firebase*

Aug. 2023 - Sep. 2023

- Developed a **mobile app to increase community service** at my high school by centralizing opportunities
- Utilized Flutter framework and Dart programming language to create the front-end of the app
- **Integrated Firebase Firestore for database storage and user-data synchronization** for both IOS and Android
- Implemented Firebase Authentication for secure user login and user session management
- **Presented with Best UI award** in the **2023 Congressional App Challenge**

LEADERSHIP

Educational CS Videos | *Social Media*

Dec. 2022 - Present

- Fully **self-made videos** designed to help CS students and learners through simplified explanations and tutorials
- Covered computer science topics including **algorithms, data-structures**, and other fundamental concepts
- Engaged with the community by answering questions in the comments, cultivating a positive learning environment
- **Created and posted over 32 videos**; received over **25k followers, 800k views, and 500k video interactions**

TECHNICAL SKILLS

Languages: Python, C, Java, JavaScript, Dart, MySQL, HTML/CSS, Google AppScripts

Tools & Frameworks: Node.js, Express.js, Flutter, MongoDB, Redis, Firebase, Tailwind CSS, Git, VS Code

Spoken Languages: English, Cantonese, Chinese