

# DAVID CHEN

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## EDUCATION

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### EMORY UNIVERSITY

Bachelor of Science

Atlanta, GA

Expected May 2026

Major in Computer Science and Mathematics; Minor in Quantitative Science

**Cumulative GPA:** 4.0/4.0; Dean's List 2022 Fall, 2023 Spring

**Relevant Coursework:** Data Structures & Algorithms; Computer Architecture & Assembler Programming; Google Cloud Foundations; Linear Algebra; Intro to Computer Science; Intro to Artificial Intelligence

## RELEVANT PROJECTS

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### REACT-BASED ECOMMERCE SITE ([Github](#) | [Deployed Website](#))

May 2023 - July 2023

**Tech Stack:** JavaScript, React, Firebase

- Built a full-stack e-commerce site with product display, item search, shopping cart, and checkout
- Enabled props sharing and global state management with React Context API
- Integrated server with Firebase to enable user authentication and storage of user data
- Implemented Firestore security rules to check user authentication status and ensure safe CRUD operations

### DJANGO-BASED ONLINE TASK MANAGER ([Github](#) | [Deployed Website](#))

June 2023 - July 2023

**Tech Stack:** Python, Django, SQLite

- Built an online to-do-list that can record and track the completion status of tasks
- Designed Rest APIs based on CRUD operations to support adding, deleting, and editing of tasks
- Utilized Django authentication system to store user information and encrypt passwords with SHA256 hash

### GCLOUD TRANSLATION API PROJECT ([Github](#))

April 2023 - May 2023

**Tech Stack:** Python, Google Cloud

- Investigated how factors such as language and content type impact the accuracy of Google Cloud Translation API
- Utilized TfidfVectorizer to compute cosine similarity scores measuring how well text meaning is preserved through translation
- Identified text content type and rounds of translation to be correlated with translation accuracy

### IOS GAME: A WORDLE CLONE ([Github](#))

July 2023 - Present

**Tech Stack:** Swift, SwiftUI, XCode

- Developed an iOS version of Wordle with add-ons including a hard mode and synched statistics
- Implemented game functionalities including keyboard, color flips, and word verification
- Applied scaling techniques to accommodate iPhones and iPads of various sizes

## LEADERSHIP & EXTRACURRICULAR ACTIVITIES

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### EMORY DATA SCIENCE CLUB ([Github](#))

Oct 2022 - May 2023

Project Lead, Analysis of Covid-19 and Economic Impact on National Mental Health

- Cleaned and merged economic indicators, mental health, and Covid-19 data from CDC, BEA, and NYT databases
- Built XGBoost machine learning models with low error rates (Mean Squared Error on training/validation data = 3.98/9.29)
- Organized regular meetings to share progress, assign tasks, and discuss project goals

### VIBE SCHOOL STORE

Sep 2018 – May 2022

Chief Finance Officer

- Led a team of 5 members to manage and analyze transaction records using Square Business Banking and Wave Financial
- Made monthly financial records and provide suggestions for design decisions on school apparel and souvenirs
- Organized weekly meetings to offer performance feedback and assign tasks

## SKILLS

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### Programming Languages

- JavaScript   - Python   - Java  
- C++   - Swift   - SQL  
- HTML   - CSS   - R

### Frameworks

- Express   - Django  
- React   - SwiftUI

### Other Technologies

- Microsoft Office   - Linux  
- Google Cloud   - Firebase  
- MongoDB