DAVID CHEN

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EDUCATION

EMORY UNIVERSITY — Atlanta, GA

Bachelor of Arts and Sciences — Expected May 2026

Major in Computer Science; 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; Intro to Statistical Computing; Intro to Computer Science; Intro to Artificial Intelligence

RELEVANT PROJECTS

REACT-BASED AMAZON MOCK-UP ([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 TO-DO-LIST ([Github](#)|[Deployed Website](#)) — June 2023 - July 2023

Tech Stack: Python, Django, SQLite

- Built a 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 TfidfVectorizor 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 iPhone and iPad of various sizes

LEADERSHIP & EXTRACURRICULAR ACTIVITIES

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 apparels and souvenirs
- Organized weekly meetings to offer performance feedback and assign tasks

SKILLS

Programming Languages			**Frameworks**		**Other Technologies**	
- JavaScript	- Python	- Java	- Express	- Django	- Microsoft Office	- Linux
- C++	- Swift	- SQL	- React	- SwiftUI	- Google Cloud	- Firebase
- HTML	- CSS	- R			- MongoDB	