

# DAVID CHEN

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## EDUCATION

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### EMORY UNIVERSITY

Bachelor of Arts and Sciences

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

Atlanta, GA

Expected May 2026

## RELEVANT PROJECTS

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### DJANGO-BASED ONLINE TO-DO-LIST ([Github](#) | [Website](#))

May 2023 - July 2023

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

- Built a to-do-list app that can add, edit, delete, and track completion status of tasks
- Designed Rest APIs based on CRUD operations to perform POST, GET, PUT, DELETE actions
- Utilized Django authentication system to store user information and encrypt passwords with SHA256 hash

### EXPRESS JS MARKDOWN ARTICLE BLOG ([Github](#) | [Website](#))

June 2023 - July 2023

**Tech Stack:** JavaScript, Express, Node JS, MongoDB

- Developed a web markdown blog where users can write, post, and view markdown articles
- Employed MongoDB to support efficient and scalable storage of user data

### G-CLOUD 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 a hard mode and user statistics summarization
- Applied settings to support dynamic resize of views and accommodate various device types

### REACT-BASED ECOMMERCE WEB APP ([Github](#))

July 2023 - Present

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

- Designed web pages for product display, shopping cart, and check out
- Implemented efficient global state management with React Context API
- Supported user authentication and managed product data using Firebase

## 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 models with low error rates (MSE 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 purchase decisions on school apparels and souvenirs

## SKILLS

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### Programming Languages

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

### Web Frameworks

- Express   - Django  
- React   - SwiftUI

### Other Technologies

- Microsoft Office   - Linux  
- Google Cloud   - Bash Scripting