DAVID CHEN

Atlanta, GA | P: +1 7603900895 | xche653@emory.edu | Portfolio Website

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

DJANGO-BASED ONLINE TO-DO-LIST (Github|Website)   May 2023 - July2023
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

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 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

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

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