

# DAVID CHEN

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## EDUCATION

### EMORY UNIVERSITY

Bachelor of Science

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

Atlanta, GA

Expected May 2026

## TECHNICAL PROJECTS

### REACT JS ECOMMERCE WEBSITE ([GitHub](#) | [Website](#))

*JavaScript, React, Google Cloud 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 ONLINE TASK MANAGER ([GitHub](#) | [Website](#))

*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](#))

*Python, Pandas, Google Cloud Platform*

- 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

## EXPERIENCE

### CURASTONE CORP

Sep 2023 - Present

Frontend Intern

- Developing an AI-learning assistant that generates personalized practice exercises with textbooks using TypeScript and Next.js
- Supported user authentication with AWS Amplify by appending JWT tokens to backend API queries
- Built an API using Redux Toolkit Query to enable the management of user profiles

### DIGITAL LANDSLIDE ARCHIVE PLATFORM

Sep 2023 – Present

Research Assistant

- Supported the development of a platform that analyzes and manages whole-slide pathology imaging data
- Built a Python Dash Component on React Clover IIIF library to display high-resolution image with zooming and slideshow

### EMORY DATA SCIENCE CLUB

Oct 2022 - May 2023

Project Lead

- Led a project to analyze the relationships between mental health metrics, COVID-19, and economic indicators
- 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)

### VIBE STUDENT 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

## SKILLS

### Programming Languages

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

### Frameworks

- React.js   - Node.js  
- Next.js   - Django  
- Spring Boot

### Other Technologies

- Tailwind CSS   - Redux  
- Microsoft Office   - Linux  
- Google Cloud   - MongoDB