

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; Operating Systems Programming; Google Cloud Foundations; Database Systems; Intro to Artificial Intelligence; Linear Algebra

Atlanta, GA

Expected May 2026

EXPERIENCE

CURASTONE

Sep 2023 - Present

Frontend Developer Intern

- Developing an AI-learning assistant that generates personalized practice exercises with textbooks using TypeScript and Next.js
- Enabled user authentication by implementing robust frontend logic, safeguarding protected routes from unauthorized access
- Designed intuitive user flow and input forms for registration and file upload, integrated with backend API using RTK Query
- Deployed application with Vercel and AWS Route 53 and documented the deployment process for future reference

EMORY DATA SCIENCE CLUB

Oct 2022 - May 2023

Project Lead

- Directed a project focused on analyzing the relationships between mental health metrics, COVID-19, and economic indicators
- Orchestrated the cleaning and integration of raw datasets, building a multi-dimensional time-series dataframe for analysis
- Successfully constructed high-performing XGBoost models that predict mental health metrics with low error rates

DIGITAL LANDSLIDE ARCHIVE PLATFORM

Sep 2023 – Oct 2023

Research Assistant

- Contributed to the development of a platform for analyzing and managing of whole-slide pathology imaging data
- Built a Python Dash Component using React Clover IIIF library, incorporated features like zooming and slideshow

VIBE STUDENT STORE

Sep 2018 – May 2022

Chief Finance Officer

- Directed a 5-member team to manage and analyze transaction records using Square Business Banking and Wave Financial
- Made monthly financial reports and delivered valuable suggestions for purchase and design decisions regarding products

TECHNICAL PROJECTS

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

JavaScript, React, Google Cloud Firebase

- Developed a full-stack ecommerce site featuring product display, item search, shopping cart, and checkout functionalities
- Implemented props sharing and global state management with React Context API
- Integrated frontend server with Firebase, enabling user authentication and secure storage of user data

ONLINE TASK MANAGER ([GitHub](#) | [Website](#))

Python, Django, SQLite

- Engineered an efficient online to-do-list system capable of recording and tracking the completion status of tasks
- Designed APIs based on CRUD operations to support task addition, deletion, and editing
- Leveraged the Django authentication system to store user information and encrypt passwords with SHA256 hash

DATA ANALYSIS ON GCLOUD TRANSLATION API ([GitHub](#))

Python, Pandas, Google Cloud Platform

- Conducted a comprehensive analysis of factors influencing the accuracy of Google Cloud Translation API
- Utilized TfidfVectorizer to compute cosine similarity scores measuring the preservation of text meaning through translation
- Collected, processed, and visualized data to model the impact of various features on translation accuracy

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