DAVID CHEN

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EDUCATION

EMORY UNIVERSITY   Atlanta, GA
Bachelor of Science   Expected May 2026
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

TECHNICAL PROJECTS

ECOMMERCE WEBSITE (GitHub|Website)   *JavaScript, React, Google Cloud Firebase*
- Built a full-stack ecommerce site with product display, item search, shopping cart, and checkout
- Enabled props sharing and global state management with React Context API
- Integrated frontend server with Firebase to enable user authentication and storage of user data

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 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

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
- Implemented frontend logic for authenticating users and preventing unauthorized parties from accessing protected routes
- Built Redux Toolkit Query to connect frontend with Spring Boot backend to support user data management
- Helped improve the appearance and interactivity of landing page with Tailwind CSS

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			**Frameworks**		**Other Technologies**	
- JavaScript	- Python	- Java	- React.js	- Node.js	- Tailwind CSS	- Redux
- TypeScript	- C	- SQL	- Next.js	- Django	- Microsoft Office	- Linux
- HTML	- CSS	- Swift	- Spring Boot		- Google Cloud	- MongoDB