

# DAVID CHEN

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## EDUCATION

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### 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; Data Mining; Intro to Artificial Intelligence; Linear Algebra

Atlanta, GA

Expected May 2026

## EXPERIENCE

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### CURASTONE

Sep 2023 - Present

Frontend Developer Intern

- Developing an AI-learning assistant that generates flashcards and personalized exercises 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 built 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

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### 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

### NEURAL NETWORK FOR MPOX DIAGNOSIS ([GitHub](#) | [Website](#))

*Python, Django, Sklearn, Tensorflow*

- Trained a neural network utilizing data from 25,000 patients exhibiting symptoms of MPox to develop a recommendation system for predicting whether an MPox test is necessary
- Conducted data preprocessing by replacing missing data, standardizing binary values, and implementing OneHotEncoding
- Implemented and tuned a neural network architecture with 4 layers, achieving a notable accuracy of 68% in diagnosing MPox

### 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

## SKILLS

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### Programming Languages

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

### Frameworks

- React.js   - Node.js   - Tailwind CSS  
- Redux.js   - Sklearn   - Spring Boot  
- Next.js   - Django   - Tensorflow

### Other Technologies

- Google Cloud   - AWS  
- MongoDB   - Postman  
- Microsoft Office   - Linux