

JASON CHEN

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EDUCATION

Georgia Institute of Technology, College of Computing

Bachelors of Science in Computer Science, GPA: 3.73/4.0

Atlanta, GA

May 2026

EXPERIENCE

Emory University

Jan 2024 – Ongoing

Machine Learning Researcher

Hybrid

- Developing AI to predict Intracranial Pressure from fundus videos utilizing **PyTorch** for training **convolutional neural networks**.

Otek Energy

June 2024 – August 2024

Software Development Engineer Intern

Houston, TX

- Spearheaded a reporting system to format and organize information for projects utilizing **React**, **Node.js**, and an **AWS server**
- Implemented a mobile app using **React Native** used by 40 employees to supplement the reporting system via submitting expenses.
- Wrote scripts on the AWS server to automatically backup the database to an **S3 bucket**.
- Reduced time to audit expenses, daily logs, and project information by **50%** with automated notification system.

PROJECTS

Illuminate AI

February 2024

- Engineered a web application geared towards medical personnel that allows users to upload and convert CSV files into **visual graphs and tables** while also processing and accurately retrieving data based on user queries.
- Leveraged OpenAI's natural language processing to translate user text into SQL queries, enhancing data handling by converting English text into precise **SQL** commands for streamlined data queries.
- Developed a specialized algorithm for IlluminateAI that analyzes the number and type of rows to automatically discern data types, enabling the **automated creation of visualizations** like pie charts, bar charts, tables, and basic statistical insights.

Stockbot

October 2023

- Built a web application that takes a stock ticker and runs **fundamental analysis** to determine viability of investing.
- Configured Financial Modeling Prep API to enable information to be obtained and exchanged via entering the stock's ticker.
- Streamlined the app by using **Spring Boot** to generate a Maven project, leveraging **Thymeleaf** for efficient server-side rendering.

Political Bias Detector

Nov 2021 – Feb 2022

- Created a chrome extension to classify whether a given article leans conservative or liberal utilizing **Node.js** and **Python Flask**.
- Developed and trained a bidirectional recursive neural network as part of a **deep learning** model using a labeled Reddit headline dataset with **TensorFlow in Python**, and implemented **LIME**, **attention mechanisms**, and **latent-space visualizations** to analyze and interpret the results.
- Achieved a **80% cross validation accuracy and 0.80 F1 score** on classifying whether a given headline was liberal or conservative. Utilized the MBIC dataset for testing and achieved a 70% accuracy on end-to-end tests on full articles.

INVOLVEMENT AND LEADERSHIP

GT Web Development

Aug 2023 – Present

Full-stack developer

Atlanta, GA

- Collaborated on the end-to-end development of a automated budgeting app, leading a team through 5 **sprint plannings**
- Utilized Plaid API alongside **React**, **Node.js**, and **MongoDB** in the process.

Computer Science Academy

June 2022 – August 2023

Founder

Denver, CO

- Founded and organized a competitive programming class/tutoring service with over twenty clients in the Denver Metro Area.
- Raised the contributed to the collection of over \$5000 for charity teaching **Java**, **Python**, and **C**.

ACADEMIC AWARDS & HONORS

National Merit Finalist

2023

2x National Speech and Debate Association (NSDA) National Debate Tournament Qualifier

2023

Rensselaer Medal Award

2022

Colorado Wyoming Junior Academy of Science 65th Annual Symposium Top 3

2022

President's Volunteer Service Award

2022

Gold Division Recognition in the USA Computing Olympiad (USACO)

2020

TECHNICAL SKILLS

Languages: Java, Python, HTML / CSS, SQL, C, Javascript, Typescript, EJS

Frameworks & Services: React, React Native, Node.js, Express, Flask, AWS, PostgreSQL, Django, RESTful API

Developer Tools: Git, Figma, Docker, Vim, Vite, Spring Boot, Expo, Bootstrap, Jira, Trello

Fundamentals: Algorithms/Data Structures, Machine Learning, OOP, Systems and Networks, Agile Methodology