

# JASON CHEN

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## EDUCATION

### Georgia Institute of Technology, College of Computing

Bachelors of Science in Computer Science, GPA: 3.8/4.0

Atlanta, GA

May 2026

## EXPERIENCE

### 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.

### Freelance

June 2024 – August 2024

Software Development

Denver, CO

- Worked with clients to determine effective and budget-conscious software systems including personal and business sites.
- Utilized **HTML/CSS, React, Node.js, and an AWS server** depending on the task.

## 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 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, EJS

**Frameworks & Services:** React, React Native, Node.js, Express, Flask, AWS, PostgreSQL

**Developer Tools:** Git, Figma, Docker, Vim, Vite, Spring Boot, Expo

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