Jason Chen

(720) 925-9938 | jchen3200@gatech.edu | linkedin.com/in/chensjason | jasonschen.me

EDUCATION

Georgia Institute of Technology, College of Computing　　　　　　　　　　　　　Atlanta, GA
Bachelors of Science in Computer Science, GPA: 3.8/4.0　　　　　　　　　　　　　*May 2027*

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 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