Jason Chen

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EDUCATION

Georgia Institute of Technology, College of Computing   Atlanta, GA
Bachelor's of Science in Computer Science, GPA: 3.72/4.0   *May 2027*

EXPERIENCE

Amazon Web Services   May 2025 - August 2025
Software Development Engineer Intern   *Boston, MA*
- Designed a migration strategy to transition configuration settings from **DynamoDB** to **AWS AppConfig** for the EBS Fleet Health team, which manages **backend services** that orchestrate server creation, draining, and isolation.
- Executed the migration using **AWS CDK** for infrastructure as code, modified **Java** backend service behavior, and developed Python CLI tools to support emergency overrides. Also implemented **unit tests** and built a **CI/CD pipeline** for automated deployments.
- Improved the **auditability** and **safety** of configuration changes, ensuring uninterrupted service operation during the migration.

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

TNKR   May 2025 – Present
- Cofounded a full-stack online shoe servicing marketplace, serving over **100 active users**, using **Next.js, Node.js**, and **Prisma ORM**
- Optimized database performance and reduced query latency by implementing **Redis** caching for high-traffic endpoints
- Automated infrastructure provisioning and deployment using **Terraform**, ensuring consistent and reproducible cloud infrastructure

CreekOCW   August 2022 - Present
- Cofounded a school notes website used by over **2000** students a year.
- Sourced and wrote thousands of pages of notes and online flashcards and hosted on Wordpress for first Minimum Viable Product
- Developed a web app that enhanced UI and allows for content search using **Next.js**, **Drizzle ORM**, and **Tailwind** hosted on **Vercel**

Lunchbox   February 2025 - May 2025
- Built a web application that allows for online orders for a sandwich shop named Lunchbox in France using **React**, **Node.js**, & **AWS**
- Configured **Stripe** webhooks and **Nodemailer** to allow for orders, verification email, admin dashboard, and menu updates.
- Increased sales by **15%** with the online ordering feature

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

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 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, Next.js, Prisma, Firebase
Developer Tools: Git, Figma, Linux, Docker, Vim, Vite, Spring Boot, Expo, Bootstrap, Jira, Trello, Terraform
Fundamentals: Algorithms/Data Structures, Machine Learning, OOP, Systems and Networks, Agile, CI/CD, IaC