ESTHER TRAN

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Education

Georgia State University, Atlanta, GA — May 2025
Bachelor of Science in Computer Science — GPA: 4.07/4.33
Coursework: Data Structure, Algorithm, Web Programming, Database, Software Engineering, Computer Network, Mobile App Development, Digital Image Processing, Data Science, Data Visualization.
Honors: GSU 100% Merit-based scholarship, President's List.

Technical Skills

Languages: Java, JavaScript, Python, Dart, PHP, C, Swift, HTML, CSS, MATLAB.
Tools & Frameworks: React, Vite, Express.js, Node.js, Django**,** MySQL, MongoDB, Postman, Git/GitHub, Figma, Firebase, Visual Studio Code, Android Studio, Bootstrap.

Projects

JobGlass | GitHub

- Engineered a job tracking application using **Vite** and **React**, resulting in a **30%** faster loading speed and a **20%** reduction in resource overhead.
- Implemented data storage and retrieval using **MongoDB**, guaranteeing data integrity and reliability rate.
- Enhanced data privacy and security through robust encryption and access control like JWT, providing a **95%** reduction in potential vulnerabilities and ensuring data remains safe and secure.
- Improved scalability of the program by utilizing the asynchronous architecture of **ExpressJS**, which led to a **40%** decrease in server resource usage during high traffic, provided a seamless job search experience.

Lexical Analyzer | GitHub

- Developed a powerful tokenization system in **Java** that detects and categorizes a wide range of language constructs.
- Achieved an excellent **95%** accuracy rate in classification, establishing a high benchmark for precise parsing and dependable error handling.
- Leveraged regular expressions and finite automata to accelerate the tokenization of input source code, which resulted in a **30%** reduction in tokenization time, allowing for faster processing and overall system efficiency.

ParkMe | GitHub

- Designed a parking application that coherently display multiple garages, available parking space by utilizing **Python** and **Django**, cutting system response times by **40%** and providing a responsive user interface.
- Employed **Agile** development methodologies, resulting in a **30%** reduction in project development time.
- Utilized industry-standard tools, including **Git** and **Figma**, which contribute to **15%** increase in user satisfaction.

Experience

Hackathon | HackHers — Oct 2023

- Collaborated with team members to implement a safety app, which enabled one-touch emergency alerts, real-time location sharing, and seamless communication with designated contacts and authorities.
- Achieved a **90%** user satisfaction rate through the implementation of an intuitive and user-friendly interface, as evidenced by user feedback.

CS Teaching Assistant | Academy of Brilliant Children — Jan 2022-Dec 2022

- Conducted over **200** one-on-one tutoring sessions with students, resulting in a remarkable **95%** improvement in their comprehension of computer science concepts and problem-solving skills.
- Organized and led comprehensive exam review sessions, covering key topics, and addressing student concerns, contributing to improved exam preparation and performance.

Affiliations

CodePath | Community Member | Remote — Feb 2024 – Present
Hackathon | HackHers — Oct 2023
VISA Leader | Georgia State University — Jan 2022 – May 2022
Girls Who Code | Georgia State University — Aug 2021 - Present