Jasper Huang

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https://github.com/Penble1109
US Citizen | Huntsville, TX

Education & Certificates

B.S. in Computer Science(Information Systems), Sam Houston State University
Graduate in C.S Information Systems   *May 2025*

Technical Experience

Peer Instructor - Computer Science, Sam Houston State University, TX *Feb 2023 – May 2025*

- Collaborated with professors to support students in introductory programming courses (Java, Python, C++)
- Clarified programming concepts, debugged code, and helped students improve logical thinking
- Provided peer assistance in installation, usage and practical applications of various C.S softwares and frameworks
- Mentored peers taking courses I had previously completed, including Data Structures, Database Management, and Software Engineering

Data Science Intern, Texas Dept. of Criminal Justice, TX   *Summer 2023*

- Assisted with data collection, cleaning, and preprocessing for large datasets used in criminal justice reporting and analysis
- Collaborated with analysts and IT staff during TDCJ's transition to Microsoft Azure cloud infrastructure

Projects

BlueTend (Bluetooth Attendance Tracker)   *Dec 2024*

- Collaborated in a team of developers to build a Bluetooth-based system for tracking class attendance using student smartphones
- Designed and deployed a mobile Android application that allowed students to check in via Bluetooth proximity
- Developed a React.js + Node.js web portal for professors to view, manage, and export attendance records
- Integrated Firebase for user authentication, real-time data syncing, and cloud database management
- Utilized a Bluetooth receiver device to detect student devices and confirm check-ins based on proximity

SHSU First Generation Program Tracker   *Apr 2024*

- Built a Java Swing UI integrated with MySQL via JDBC to manage mentor–mentee relationships, store onboarding questionnaire responses, and track program event attendance.
- Implemented full CRUD functionality and helped design a database schema optimized for Java's data handling limitations.
- Used Git version control to coordinate development and maintain code integrity across the team.
- Enhanced data organization and reporting capabilities, laying the groundwork for a potential production-ready deployment.

Library Catalog System *Nov 2024*

- Developed terminal-based catalog system to demonstrate hashing algorithms and efficient file storage
- Built a command-line interface supporting CRUD operations with input validation, data integrity checks, and user feedback mechanisms.
- Applied algorithmic techniques such as custom sorting and searching to maintain index consistency

Skills

Languages: Java, C++, Python, C#, JavaScript, SQL, HTML/CSS, Ada, PostgreSQL, NoSQL
Frameworks/Tools: Django, React, Node, Bootstrap, Docker, Git, AWS, Angular, Firebase, MySQL, Spring Boot, Maven, .NET
Other: LaTeX, Microsoft Azure, REST APIs, Agile, OOP, SCRUM,

Activities

Member, Association for Computer Machinery at SHSU
Participated instructional assistance, workshops, and hackathons to build skills and teamwork.