Jasper Huang

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Summary

Recent Computer Science graduate with a focus on Information Systems and hands-on experience in software development and data analysis. I've worked with technologies like Java, Python, React, Node.js, SQL, and cloud platforms (Azure, AWS), and completed projects ranging from building database-driven applications to full-stack web apps. My background includes a Data Science internship supporting cloud migration at TDCJ and tutoring students in programming. I enjoy problem-solving, a strong drive to learn and turning complex ideas into working solutions.

Education & Certificates

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

Experience

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

- Collaborated with faculty to deliver teaching sessions and hands-on guidance, supporting 100+ students per semester in classroom and one-on-one settings
- Assisted peers with installation, configuration, and applied use of software languages, tools and frameworks including and not limited to Java, Python, C++, IntelliJ, Eclipse, VSCode, MySQL, Git
- Mentored and collaborated with students across advanced coursework (Data Structures, Database Management, Software Development Methodologies, Information Systems), strengthening understanding of core CS concepts and problem solving skills

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

- Assisted with data collection, cleaning, and pre-processing for large datasets used in criminal justice reporting and analysis
- Collaborated with a small team of data analysts during TDCJ's transition to Microsoft Azure cloud, reducing server usage by 30% and improving system reliability

Projects

BlueTend (Bluetooth Attendance Tracker)   *Sept. 2024 - Dec 2024*

- Collaborated in 5 person team to develop a Bluetooth-based attendance tracking system using student smartphones, reducing manual roll calls from 10 minutes to under 1 minute

- Designed and deployed an Android application enabling students to check-ins via Bluetooth proximity detection with 95% accuracy (**Kotlin, Android studio, RESTful APIs**)
- Built a **React.js + Node.js web portal** for professors to view, manage, and export 500+ attendance records
- Integrated **Firebase** for user authentication, 10+ API endpoints, and cloud database management, syncing updates between mobile and web in under 2 seconds (NoSQL)
- Utilized a Bluetooth receiver device to detect student devices, ensuring secure and reliable check-ins

SHSU First Generation Program Tracker *Apr 2024*

- Built a **Java Swing UI integrated with MySQL via JDBC** to manage mentor–mentee relationships, on-boarding surveys, and track program event attendance supporting potential student/staff records
- Implemented full CRUD functionality across 5+ database tables optimizing schema design to overcome Java's data handling limitations.
- Used **Git and GitHub version control** to coordinate development and maintain code integrity throughout the team.
- Enhanced data organization and reporting capabilities, laying the groundwork for a potential production-ready deployment.

Movie Search App - React, Vite, CSS, APIs JavaScript *Aug. 2025*

- Built a responsive web application that allows users to search movies via **OMDb API**, view details in a model and save favorites using localStorage
- Designed and styled UI with custom **CSS (grid layout, responsive design, multiple device integration)**, demonstrating skills in **REST APIs HTML, and modern JavaScript**.
- GitHub Repo: CLICK HERE — Live Demo: CLICK HERE
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Skills

Languages: Java, C++, Python, C#, JavaScript, MySQL, HTML/CSS, Ada, PostgreSQL, NoSQL
Frameworks/Tools: JUnit 5, JavaFx, Django, React, Node, Git, AWS, Angular, Firebase, MySQL, Spring Boot Dependencies, Maven
Other: LaTeX, XML, 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.