

Rahul Shrestha

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Education

Texas Christian University (B.S. in CompSci & Math, 3.63 GPA)

May 2026

Skills, Technologies, and Honors

Skills: Java, Python, C#, C++, JavaScript, React, NodeJS, HTML/CSS

Technologies: .NET, MongoDB, MySQL, Google Cloud Platform, MSSQL, Amazon Web Services, Docker, Git/Github

Honors: Deans List

Experience

Ampcare LLC, Incoming Software Engineering Intern

Sep 2024 - Dec 2024

- Anticipating hands-on experience in software development, gaining exposure to corporate environments and contributing to impactful projects.

Texas Christian University, Teaching Assistant

Sep 2024 - Present

- Grader for Cloud Computing course with a focus on AWS Cloud Foundations while assisting classes of 30-50 students answering questions, guiding students, and helping debug.
- Providing detailed evaluations and feedback on student assignments covering cloud concepts, AWS core services, security, architecture, pricing, and support.

TCU University Advancement, Research Assistant

May 2024 - Present

- Conducting comprehensive research using online resources and established databases, ensuring thorough data collection and entry to support academic and administrative projects.
- Maintaining strict confidentiality with sensitive data and efficiently managing supply logistics to support office operations.

The United Nations Human Rights Council, Outstanding Delegate (Volunteering)

Sep 2021

- Conducted in-depth research and analysis on human rights crises in the Middle East, contributing to informed discussions and resolutions within the UNHRC.
- Promoted conflict resolution strategies within the M-UNHRC framework, showcasing strong communication, negotiation, and leadership skills.

Technical Projects

Bank Management System (github)

- Designed in Java, integrating Spring Framework and Hibernate for secure and efficient data handling, supported by MySQL.
- Implemented JSON/XML for data exchange and utilized Git, Maven, and Gradle for streamlined project management and collaboration.

Portfolio Website (github)

- Implemented a modern, responsive user interface using Chakra-UI and integrated AWS for enhanced scalability and reliability, ensuring a seamless and adaptive user experience across all devices.
- Integrated ReactJS for seamless navigation and interactive user interface elements.

ARM Machines Instructions (github)

- Developed a JAVA application featuring an intuitive Graphical User Interface(GUI) to facilitate the encoding and decoding of sixteen ARM7 instructions, accommodating them across a bank of sixteen registers.
- Proficiently demonstrated competence in Java programming, including GUI design and event-driven programming, while successfully executing the project.

Sorting Algorithms Comparator (github)

- Conducted a comprehensive performance analysis of multiple sorting algorithms, focusing on comparison counts and time complexity.
- Designed and implemented benchmarking tools to measure algorithm efficiency, optimizing for both accuracy and execution time.