

Eric Licea Tapia

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Active U.S. Secret Security Clearance

EDUCATION

Texas Christian University, College of Science and Engineering Fort Worth, TX
Bachelor of Science in Computer Science May 2026
Major: Computer Science, Minor: Mathematics GPA: 3.3
Honors and Scholarships: Chancellor's Scholar, John V. Roach Honors, Lockheed Martin STEM Scholar, Fort Worth
Hispanic Chamber of Commerce Scholar, Hispanic Scholarship Fund Scholar
Relevant Coursework: Data Structures & Algorithms, Unix System Administration, Computer Organization/Systems, Web Technologies, Introduction to Cybersecurity

SKILLS

Programming Languages: Java, C, Python (learning), HTML, CSS, JavaScript (learning), Kotlin, MySQL (basic)
Tools: Git, Neovim, Visual Studio Code, IntelliJ IDEA, VMware Fusion, Microsoft Office (Word, PowerPoint, Outlook)
Operating Environments: macOS, Linux (Arch, Ubuntu, Fedora), Windows 10/11

PROJECT EXPERIENCE

Photo Gallery Application (AWS) Sept. 2024 – Oct. 2024

- Designed and deployed a cloud-based photo gallery application using Flask, hosted on an Amazon EC2 instance, with scalable storage and retrieval systems powered by Amazon RDS/DynamoDB for SQL and NoSQL variants.
- Configured S3 buckets for static website hosting and secure storage of uploaded photos, implementing bucket policies to enable controlled public access while ensuring data security.
- Developed and enhanced API functionality for photo upload, search, and detail viewing, improving application usability and enabling efficient interaction with backend databases.

Array Processing (Assembly) Mar. 2024 – May 2024

- Constructed and tested an ARMv8 assembly program that included eight functions using C prototypes such as initializing, printing, copying, and sorting arrays, as well as computing averages using recursion.
- Implemented key algorithms like selection sort and recursive summation while managing memory through proper prologue, epilogue, and stack allocation techniques.
- Focused on error handling, ensuring robustness through detailed edge case testing, and using debugging tools to verify program accuracy, particularly in recursive functions and sorting algorithms.

Client-Server Application (Java) Mar. 2023 – May 2023

- Utilized multi-threading to manage concurrent client connections, enhancing performance and responsiveness.
- Established socket-based communication for efficient data transfer between the client and server, using JFrame to create an intuitive graphical user interface for user interactions.
- Integrated error handling and input validation within the client application, ensuring a smooth user experience and graceful management of invalid inputs.

WORK EXPERIENCE

TCU Information Technology, Fort Worth, TX Sept. 2023 – Present

Help Desk Technician

- Provide technical support to students, faculty, and staff by troubleshooting software, network, and account issues through a ticket system, ensuring smooth operation of academic and administrative programs.
- Resolve software installation, configuration, and compatibility issues, manage account-related tasks (password resets, access permissions, MFA setups), and ensure secure user access.
- Collaborate with IT staff to resolve complex issues, gather customer data, and expand technical expertise.

LEADERSHIP EXPERIENCE

Lambda Theta Phi Latin Fraternity, Inc.: *President* (Jan. 2025 – Present), *Sergeant-At-Arms* (May 2024 – Dec. 2024), *Vice President* (Jan. 2024 – Apr. 2024), *Secretary* (Mar. 2023 – Dec. 2023)

Texas Association of Chicanos in Higher Education: *Undergraduate Representative* (October 2024 – Present)

Society of Hispanic Professional Engineers: *Member* (March 2023 – Present)

TCU Multicultural Greek Council: *President* (Jan. 2024 – Dec. 2024), *Social Chair* (Sept. 2023 – Dec. 2023)

TCU Hispanic Alumni Alliance: *Undergraduate Representative* (Aug. 2023, Aug. 2024)