Alexandra Teran

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PROFILE SUMMARY

Computer Information Technology graduate from Texas Christian University with hands-on experience in data analytics, full-stack development, IT support, and cloud computing. Proficient in Python, SQL, Java, and AWS with strong knowledge of operating systems, including process and memory management. Proven ability to automate workflows, optimize systems, and deliver user-focused solutions. Passionate about applying technology to solve challenges in health tech, cloud infrastructure, and cybersecurity through clean code and best software practices.

EDUCATION

Texas Christian University, Fort Worth, TX
Bachelor of Science in Computer Information Technology

COMPUTER SKILLS

Programming Languages: Python, Java, JavaScript, SQL, HTML
Cloud/DevOps: AWS (EC2, S3, API Gateway), Unix, Linux, Git, Terraform
Data Tools: Excel, Tableau, MySQL, Power BI
Cybersecurity: Encryption, Network Security, Vulnerability Scanning
Frameworks: React.js, Spring Boot
Systems; Operating Systems: Process and thread management, CPU scheduling, memory management (paging, segmentation, virtual memory), file systems, deadlock handling, distributed systems

EXPERIENCE

Full Stack Developer, Compañía Licorera de Nicaragua (Flor de Caña), Managua, Nicaragua June 2025 - Present

- Developing and supporting web and mobile applications using Java, React, .NET, Python, and SQL as part of the IT department at a globally recognized sustainable rum producer.
- Supporting both frontend and backend development to enhance internal systems and improve userfacing digital platforms.
- Contributing to the design and optimization of mobile infrastructure to ensure high performance, scalability, and cross-device compatibility.
- Collaborating with cross-functional teams to streamline digital operations, automate workflows, and improve overall user experience.

Data Analytics Intern, *Generadora Electrica Occidental (GEOSA)*   January 2025- May 2025
- Analyzed data using Excel, Python, and SQL to generate insights and automate reporting.
- Created dashboards and collaborated on analytics projects to support decision-making.
- Communicated findings to stakeholders through presentations and written reports.

Helpdesk Assistant*, TCU Library Computer Lab,* Fort Worth, TX   October 2022 – May 2025
- Delivered technical support for software and hardware issues (e.g., printers, scanners, and desktop computers), resolving 50+ issues weekly to ensure seamless operation of library resources.
- Improved user satisfaction by providing clear guidance on library systems and tools for 5,000+ students and faculty daily.
- Delivered exceptional customer service by diagnosing and resolving hardware and software issues and keeping an organized workspace to ensure efficiency.

Copy Editor, *TCU360*, Fort Worth, TX   January 2024 – May 2025

- Edit and proofread all news reports for grammar, style, and factual accuracy prior to publication on the TCU360 news website.
- Lead editorial operations in a student-run newsroom under the guidance of faculty advisors.
- Provide constructive feedback to writers to enhance article quality, reporting clarity, and journalistic standards.

IT & Data Analyzer, *Banco BDF,* Managua, Nicaragua   June 2023 – Aug 2023
- Joined a competitive IT internship program within a leading Nicaraguan bank.
- Support the IT team in enhancing data analysis processes and learning the fundamentals of the bank's systems.
- Self-taught SQL to develop custom scripts and queries to automate data processing and collaborated with technical teams to identify areas for system optimization.
- Streamlined data workflows and delivered actionable insights that improved decision-making within the IT department.

PROJECTS
Senior Design Team Member, *PsychWorks Automated Report System,* Fort Worth, TX   August 2024 – Present

- Collaborate with a team of 6 to design and program a computer security system used to encrypt personal user information in online databases
- Designed software that automatically creates tables and reduces the time staff spend writing medical and psychiatric conclusions by nearly 50%.
- Java, AWS API Gateway, HIPAA Compliance
- Reduced psychiatric report generation time by 75% (2h → 30min) via dynamic templates.
- Built HIPAA-compliant APIs (Java/Spring Boot) to fetch patient data, improving accuracy by 40%.

Project, *FrogCrew Scheduling System,* Fort Worth, TX   Jan 2024 – May 2025
- React.js, GitHub, RESTful APIs, Team of 2 (Frontend Lead)
- Developed a mobile-friendly UI for 50+ users, reducing scheduling errors by 60%.
- Implemented 5+ user flows (shift swaps, availability forms), boosting crew satisfaction by 40%.

RELEVANT COURSEWORK

Mobile app development, computer and network security, cloud computing, and operating systems.