Steven Chen

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EDUCATION

The University of Texas at Austin, Austin, TX   May 2026
Bachelor of Science in Electrical and Computer Engineering, Major GPA: 3.9
Relevant Coursework:
Software Design and Implementation, Embedded Systems, Circuit Theory, Digital Signal Processing, Data Science Lab

SKILLS

Technical Skills: C/C++, Python, ARM Assembly, JavaScript, SQL, Docker, Ansible, Splunk, Jira, Git, Terraform, Kubernetes, Windows, Linux, Virtualization, Cloud-Init, Dynatrace, CI/CD, Confluence
Certifications: Cisco Certified Network Associate (CCNA)

EXPERIENCE

ERCOT, Taylor, TX   Jun 2024 - Aug 2024
IT / DevOps Intern
- Designed and implemented a modular automation framework in Python to streamline dependency-based Jira Plans, enabling seamless integration of any automation tool with an API.
- Leveraged Jira and Ansible Tower APIs to automate issue tracking, dependency checks, status updates, and execution of playbooks, significantly reducing manual effort.
- Integrated Microsoft Teams for real-time workflow status notifications, pinging users for manual tasks, and enabling two-way communication to update Jira tickets directly from the Teams chat.
- Developed a custom Splunk visualization add-on using CytoscapeJS to display the status of JIRA Plans, enhancing project monitoring with near real-time insights.

ORGANIZATIONS

Texas Luminescence, Austin, TX   Jan 2024 - Present
Backend Developer
- Developed and containerized a REST API built with Python Flask and MySQL to create robust, scalable backend functionalities for an AI journaling app, ensuring high performance, reliability, and consistent deployment across different environments.
- Experimented with deployment of the website and API on various platforms, including AWS, Azure, and GCP, gaining insights into cloud services and optimizing for different environments.
- Authored comprehensive technical documentation for deploying the application and accessing the API, enhancing usability and facilitating seamless integration for developers.

PROJECTS

Home Lab   Aug 2018 - Present
- Configured and maintained a home lab environment for running various services including Git, Jellyfin, Bitwarden, Nextcloud, and a personal website.
- Utilized Proxmox as the hypervisor to manage virtual machines, and leveraged TrueNAS for centralized storage, using iSCSI, NFS, and Samba shares to ensure reliable data storage and accessibility across the network.
- Implemented network segmentation using pfSense, setting up VLANs and firewall ACLs to enhance network security and isolate services.
- Automated infrastructure management using Ansible playbooks, Cloud-init, and Terraform for provisioning and managing a Kubernetes cluster, streamlining deployment and configuration processes.

LeetCode Rooms   Oct 2023
- Developed a competitive multiplayer game for LeetCode using Python Flask, Socket.IO, and MySQL, implementing real-time communication between clients and the server to ensure a seamless multiplayer experience.
- Leveraged JavaScript to create interactive and dynamic user interfaces, including a live chat feature that displayed player messages and problem completions, enhancing user engagement and interaction.